

CONSTRUCTION DRAWINGS
FOR THE

EVERGLADES FOUNDATION GEORGE BARLEY WATER PRIZE

PREPARED FOR:
THE EVERGLADES FOUNDATION

THE EVERGLADES FOUNDATION

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GEORGE BARLEY
WATER PRIZE
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THE EVERGLADES FOUNDATION

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60% DRAWINGS
NOT FOR CONSTRUCTION

JULY 2019

PROJECT TEAM

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Certificate of Authorization Number 5993

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REI Project No.168000



Parent Sheet Set:168000_CB Water Prize_PRRaw/Plot by:VIOLET VANATTA Rev on:7/1/2019 5:08 PM Individual File Path:R:\Projects\168000 - George Barley Water Prize\Design\Drawings\FinalDesign_2018\G01.dwg

REV	DATE	DESCRIPTION	BY
A	07/2019	60% DRAWINGS	VVV

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Issue Certification

Glenn W Dunkelberger, P.E.
Florida P.E. No. 38310

Designed GWD
 Drawn VVV
 Checked GWD
 Reviewed ---
 Approved ---

LINE IS 1" AT
FULL SIZE

THE EVERGLADES FOUNDATION
 EVERGLADES FOUNDATION GEORGE BARLEY WATER PRIZE

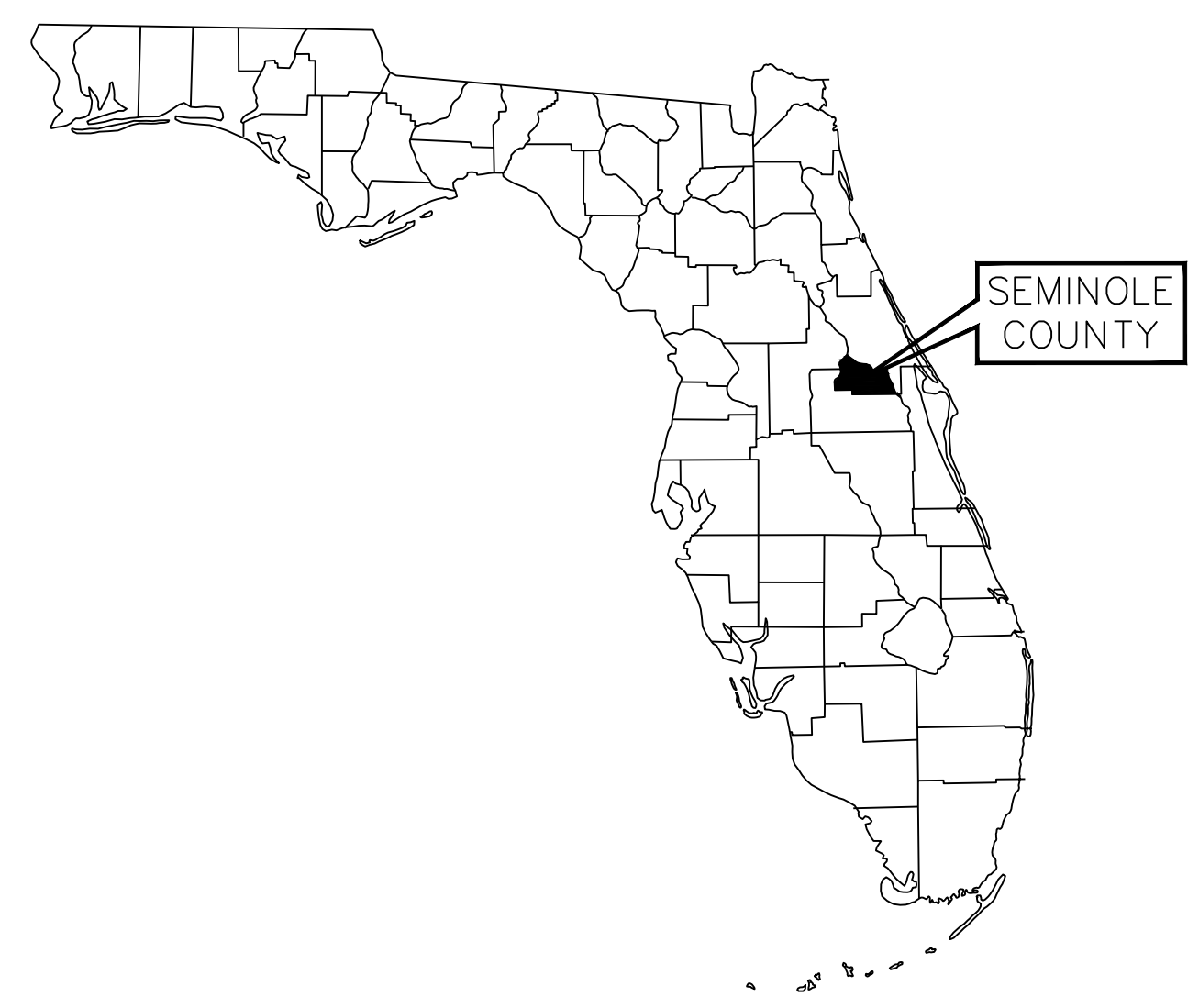
GENERAL

DRAWING INDEX

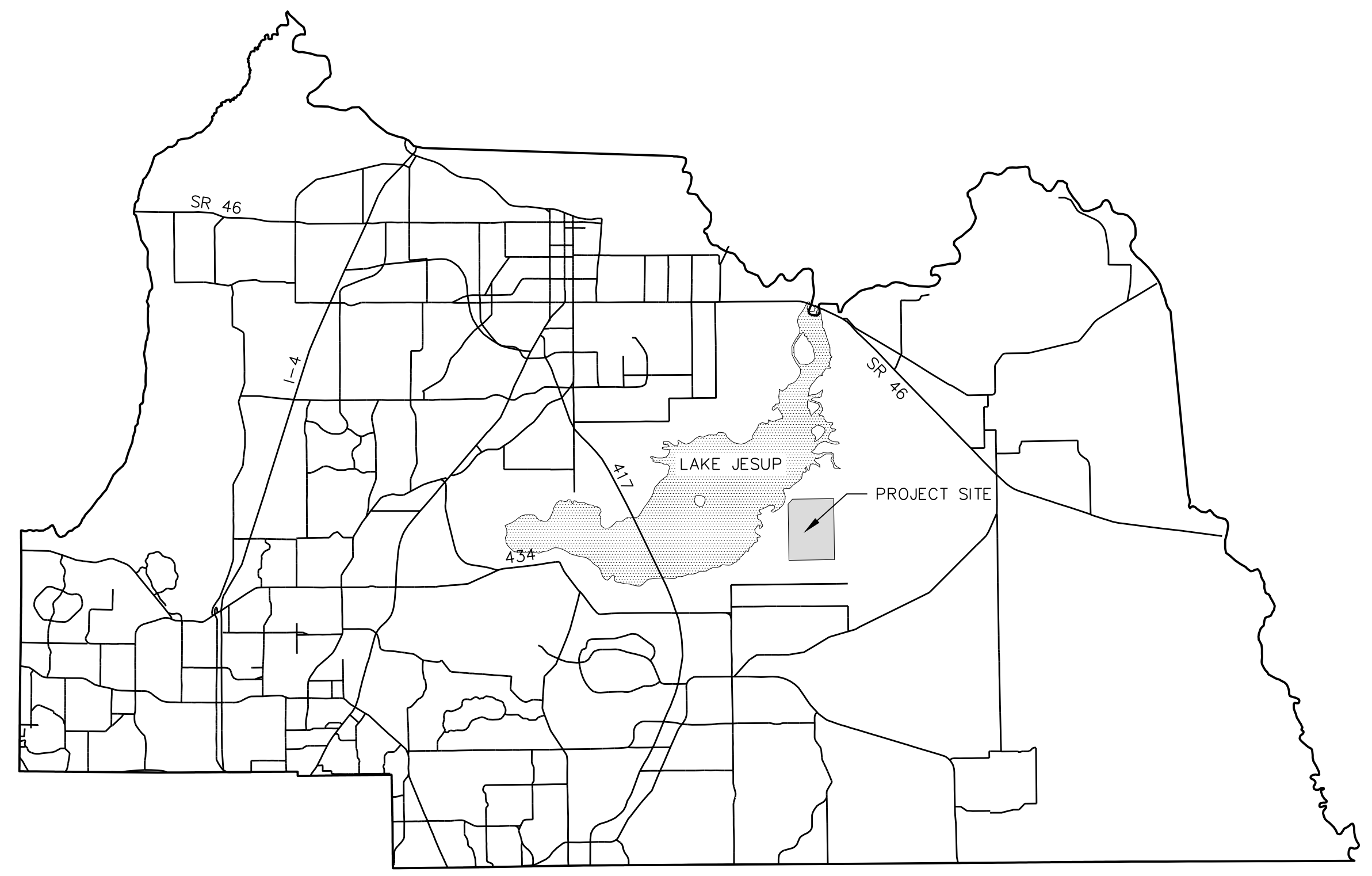
PROJECT NO.: 168000	
SCALE: NOTED	REVISION: A
DRAWING NO. G02	SHEET NO.: 02 OF XX



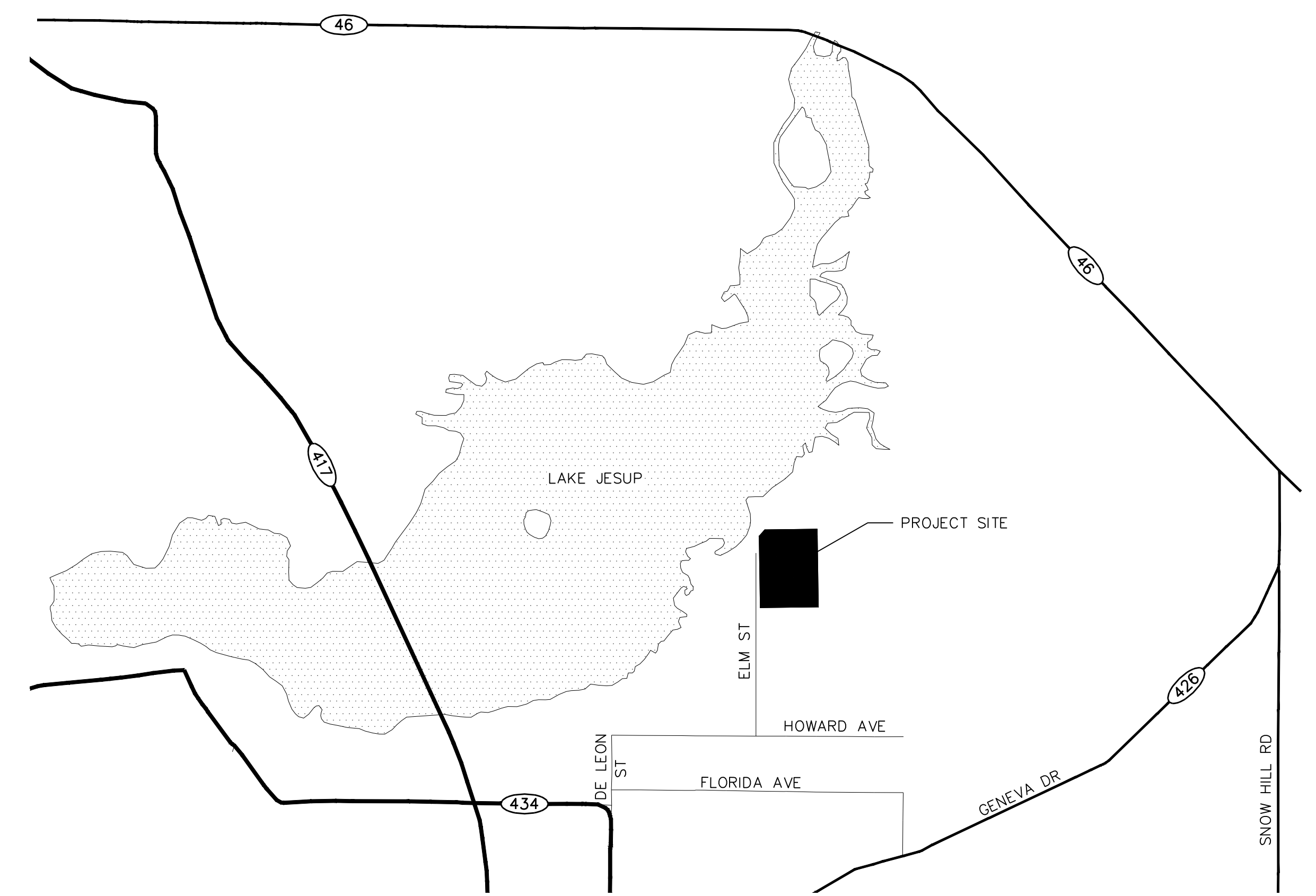
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STATE OF FLORIDA
SCALE: N.T.S.



SEMINOLE COUNTY, FLORIDA
SCALE: N.T.S.



PROJECT SITE MAP
3251 ELM STREET
OVIDEO, FLORIDA



REV	DATE	DESCRIPTION	BY
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Issue Certification	
Designed	GWD
Drawn	VVV
Checked	GWD
Reviewed	---
Approved	---
Glenn W Dunkelberger, P.E. Florida P.E. No. 38310	

Designed	GWD
Drawn	VVV
Checked	GWD
Reviewed	---
Approved	---

THE EVERGLADES FOUNDATION
EVERGLADES FOUNDATION GEORGE BARLEY WATER PRIZE
 GENERAL
LOCATION MAPS

PROJECT NO.: 168000	
SCALE: NOTED	REVISION: A
DRAWING NO. G03	SHEET NO.: 03 OF XX



GENERAL NOTES

- HORIZONTAL CONTROL: COORDINATES ARE BASED ON (Designer insert the basis of the control datum.). COORDINATES ON STRUCTURES DEPICT THE EXTERIOR FACE OF THE CONCRETE SUBSTRUCTURE FOUNDATION WALL OR FOOTING WALL.
- VERTICAL CONTROL: ELEVATIONS ARE BASED ON (Designer insert the basis of the control datum.). BENCHMARKS AND/OR STRUCTURE ELEVATIONS FROM EXISTING SURVEYS OR REFERENCE DRAWINGS MAY RESULT IN VARIANCES WITH ELEVATIONS INDICATED ON THE DRAWINGS FOR EXISTING FACILITIES. (Designer should indicate here the example of any known differences between datum basis; include individual benchmark reference information in the project specific notes or at the appropriate location on the drawings.)
- THE PROJECTED 100 YEAR FLOOD ELEVATION IS (Designer insert data) AND THE PROJECTED 500 YEAR FLOOD ELEVATION IS (Designer to insert data).
- EXISTING UTILITIES AND STRUCTURES (UNDERGROUND, SURFACE, OR OVERHEAD) ARE INDICATED ONLY TO THE EXTENT THAT SUCH INFORMATION WAS KNOWN, OR MADE AVAILABLE TO, OR DISCOVERED BY THE ENGINEER IN PREPARING THE DRAWINGS. THE LOCATIONS, CONFIGURATIONS, AND ELEVATIONS OF SUBSURFACE FACILITIES AND UTILITIES ARE APPROXIMATE, AND NOT ALL UTILITIES AND FACILITIES MAY BE INDICATED. OVERHEAD UTILITIES ARE NOT INDICATED IN ARCHITECTURAL ELEVATIONS, PROFILE OR SECTION DRAWINGS. THE ENGINEERING INVESTIGATIONS, LOCATION, AND DESIGNATION OF SUBSURFACE UTILITIES INDICATED IN THESE CONTRACT DOCUMENTS HAS BEEN PERFORMED TO QUALITY LEVEL C IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRINCIPLES AND PRACTICES AS OUTLINED IN ASCE STANDARD AND GUIDELINE BULLETIN C1/ASCE 38-02 UNLESS OTHERWISE DESIGNATED. WHERE SUCH ACTIVITIES HAVE BEEN TO A HIGHER LEVEL OF QUALITY, THE HIGHER QUALITY LEVEL FOR THE AFFECTED AREAS IS INDICATED IN THE CONTRACT DOCUMENTS.
- "SCREENED" (LIGHT) DELINEATION INDICATED ON THE DRAWINGS DENOTES EXISTING FACILITIES. "SCREENED" INFORMATION WAS TAKEN FROM EXISTING CONSTRUCTION DRAWINGS AND DATA IS FOR REFERENCE ONLY, AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO THE ORDERING OF MATERIALS AND BEGINNING OF CONSTRUCTION. "BOLD" DELINEATION IS NEW WORK TO BE CONSTRUCTED UNDER THIS CONTRACT.
- CONTRACTOR'S STAGING, PARKING AND MATERIAL STORAGE SHALL BE LIMITED TO THE SPACE(S) DESIGNATED ON THE DRAWINGS. PROVIDING ADDITIONAL STORAGE OR PARKING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CALL BEFORE YOU DIG. CONTRACTOR SHALL VERIFY PRECISE LOCATIONS AND ELEVATIONS OF ALL UTILITIES AND STRUCTURES, WHETHER INDICATED ON THE DRAWINGS OR NOT, IN THE FIELD IN ADVANCE OF EXCAVATING, BY CONTACTING ALL UTILITIES AND OTHER AGENCIES, AND BY PROSPECTING. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL, DEMOLITION, RECONSTRUCTION, AND RECONNECTION OF EXISTING FACILITIES AS REQUIRED TO COMPLETE THE WORK. IF REQUIRED AFTER FIELD VERIFICATION, CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO DETERMINE ANY NECESSARY MODIFICATIONS TO PROPOSED NEW WORK.
- BEFORE CONSTRUCTION IS STARTED, CONTRACTOR SHALL COORDINATE WITH THE OWNER OF EACH UTILITY AND DEFINE THE REQUIREMENTS AND METHODS TO ACCOMMODATE THE PROTECTION, TEMPORARY SUPPORT, ADJUSTMENT, OR RELOCATION OF ANY UTILITIES AFFECTED BY THE PROPOSED NEW WORK.
- CONTRACTOR SHALL COMPLY WITH THE GOVERNING AGENCY NPDES CONSTRUCTION REQUIREMENTS, AND SHALL PROVIDE APPROPRIATE MITIGATION MEASURES OR PROTECTION AND RESTORATION AT ALL LOCATIONS AS REQUIRED BY THEIR OPERATIONS, AND AS DIRECTED BY ENGINEER. SPECIAL CONSTRUCTION REQUIREMENTS, TEMPORARY PROTECTIVE FENCING OR BARRICADES, SHEETING, SHORING, EROSION PROTECTION, AND SURFACE RESTORATION AT CERTAIN LOCATIONS ARE INDICATED ON THE DRAWINGS TO BRING CONTRACTOR'S ATTENTION TO SENSITIVE AREAS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL PROPERTY CORNER MARKERS. PROPERTY CORNER MARKERS DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE REESTABLISHED BY A PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF FLORIDA.
- THE LOCATION OF TEST HOLES INDICATED ON THE DRAWINGS IS APPROXIMATE. CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT FOR ACTUAL TEST HOLE LOCATIONS AND THE FINDINGS OF THE GEOTECHNICAL INVESTIGATIONS.
- CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING TREES, SHRUBS, AND PLANTS UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL INSTALL ALL PIPELINES, PAVING, WALKWAYS, AND CURB AND GUTTER AT A UNIFORM GRADE BETWEEN ELEVATIONS DEPICTED ON THE DRAWINGS.
- FOR ALL SITE GRADING, SMOOTH PARABOLIC TRANSITIONS SHALL BE MADE BETWEEN CHANGES IN SLOPE. PARABOLIC ROUNDING SHALL APPLY TO ALL CUT AND FILL SECTIONS.
- FINISHED GRADE ELEVATION AT THE BUILDING FACE, WHERE NOT ADJACENT TO PAVEMENT, SHALL BE APPROXIMATELY 6 INCHES BELOW FINISHED FLOOR ELEVATION UNLESS OTHERWISE NOTED. FINISHED GRADE ELEVATION ADJACENT TO BASINS SHALL BE APPROXIMATE AS INDICATED BY CONTOURS, OR AS REQUIRED TO MEET STAIR LANDINGS.
- THE CONTRACTOR'S OPERATIONS SHALL CONFORM TO THE RULES AND REGULATIONS OF THE STATE CONSTRUCTION SAFETY ORDERS PERTAINING TO EXCAVATION AND TRENCHING.
- RESTRAINED JOINTS SHALL BE PROVIDED FOR BURIED PIPING AS INDICATED ON THE DRAWINGS AND/OR AS SCHEDULED IN THE SPECIFICATIONS.
- THE DRAWINGS INDICATE TYPES OF PIPE SUPPORT SYSTEMS AT VARIOUS LOCATIONS. HOWEVER, ALL PIPE SUPPORTS, HANGERS, BRACKETS, INSERTS OR BRACES ARE NOT SHOWN. CONTRACTOR SHALL REFER TO THE SPECIFICATIONS AND PROVIDE A COMPLETE SUPPORT SYSTEM AS REQUIRED.

- THE TERM "PROPOSED" AS INDICATED ON THE DRAWINGS MEANS THE ITEM IS DESIGNED OR PLANNED TO BE PROVIDED BY OWNER OR OTHERS SEPARATE FROM THIS CONTRACT. THE TERM "FUTURE" AS INDICATED ON THE DRAWINGS REFERS TO THE ENGINEER'S INTERPRETATION OF THE ITEM FOR THE FUTURE, BASED ON AVAILABLE INFORMATION.
- THE EXISTING PROCESS FACILITIES SHALL REMAIN IN OPERATION CONTINUOUSLY THROUGHOUT THE CONSTRUCTION ACTIVITIES. INDIVIDUAL PROCESS FACILITIES CAN BE TAKEN OUT OF SERVICE FOR LIMITED PERIODS OF TIME TO FACILITATE CONSTRUCTION AS SPECIFIED IN THE CONTRACT DOCUMENTS.
- STRUCTURES SUCH AS CURBS AND GUTTERS, CONCRETE AND ASPHALT DRIVES AND WALKWAYS, PAVING BRICKS, FENCING, RETAINING WALLS, ETC, CROSSED BY THE PIPELINE ARE NOT ALL INDICATED IN PROFILE. CONTRACTOR SHALL RESTORE ANY EXISTING STRUCTURES THAT ARE DISTURBED, DAMAGED OR REMOVED BY CONSTRUCTION.
- CONTRACTOR SHALL REPLACE EXISTING PIPE CULVERTS THAT ARE REMOVED TO INSTALL THE NEW PIPELINE WITH NEW PIPE CULVERTS OF THE SAME SIZE, MATERIAL AND CONSTRUCTION AT THE SAME LOCATION AND INVERT ELEVATION AS THOSE THAT WERE REMOVED, AND SHAPE THE DITCH TO DRAIN WITH THE REPLACED CULVERT. CONTRACTOR SHALL PROVIDE ANY TEMPORARY CULVERTS THAT MAY BE REQUIRED FOR CONTRACTOR'S OPERATIONS. CONTRACTOR SHALL COORDINATE REMOVAL AND REPLACEMENT OF ANY CULVERTS WITHIN PUBLIC RIGHT-OF-WAY WITH THE REGULATING AGENCY.
- HORIZONTAL STATIONING ALONG THE PIPELINE ALIGNMENT IS FOR LEVEL LINE MEASUREMENT AND FOR PAYMENT OF THE PIPELINES. CONTRACTOR SHALL PROVIDE THE ACTUAL PIPE LENGTH TO BE DETERMINED BY THE SLOPE OR CURVE ON WHICH THE PIPE IS INSTALLED.
- UNLESS OTHERWISE SPECIFIED, INDICATED ON THE DRAWINGS, OR DIRECTED BY THE ENGINEER, INSTALL PIPELINES SLOPING DOWNWARD FROM AN AIR VALVE (Designer, note that additional cover is required at an ARV location in areas subject to freezing, include an appropriate minimum depth of cover to suit local climatic conditions.) MINIMUM "1'-0" COVER AT MANHOLE OR AT MANUAL ARV TO A BLOWOFF, AND PROVIDE THE SPECIFIED MINIMUM PIPE COVER. MINIMUM PIPE COVER SHALL BE FROM THE EXISTING, PROPOSED, OR FUTURE GROUND SURFACE OR ROAD PROFILE, WHICHEVER GROUND SURFACE OR ROAD PROFILE IS APPLICABLE AS INDICATED ON THE DRAWINGS. IF THE PROPOSED GROUND SURFACE IS ABOVE THE EXISTING GROUND SURFACE INDICATED ON THE DRAWINGS AND IS NOT THE ACTUAL GROUND SURFACE AT THE TIME OF PIPELINE INSTALLATION, INSTALL THE PIPELINE TO PROVIDE MINIMUM PIPE COVER FROM THE ACTUAL GROUND SURFACE IF ACCEPTABLE TO THE ENGINEER. HIGH POINTS IN THE PIPELINE WILL NOT BE PERMITTED EXCEPT AT LOCATIONS OF AIR VALVES AS INDICATED ON THE DRAWINGS. REVIEW THE PIPELINE PROFILE REQUIREMENTS WITH THE ENGINEER PRIOR TO PREPARING LAYING SCHEDULES AND PERFORMING FIELD STAKING.
- CONTRACTOR SHALL FIELD VERIFY PRECISE LOCATION, ELEVATION, AND ARRANGEMENT OF CONNECTIONS OF NEW PIPELINES WITH EXISTING PIPELINES BASED ON FIELD CONDITIONS, INCLUDING EXPOSING EXISTING PIPING PRIOR TO FABRICATING NEW PIPING. CONTRACTOR SHALL PROVIDE FITTINGS, ADAPTERS, SOLID SLEEVE CLOSURES, AND HARNESSSED MECHANICAL COUPLING; ROTATE FITTINGS; DEFLECT JOINTS; AND MODIFY EXISTING PIPING AS APPLICABLE AND AS REQUIRED TO MAKE CONNECTIONS, INCLUDING ADJUSTMENTS FOR ANY OFFSETS IN CENTERLINE ELEVATIONS BETWEEN PIPELINES. CONTRACTOR SHALL PROVIDE TEMPORARY PLUG WITH FACTORY OUTLET SIZED AS REQUIRED FOR CONTRACTOR'S TESTING AND DISINFECTION WORK BEFORE MAKING CONNECTION, WHEN APPLICABLE. CONTRACTOR SHALL COORDINATE MAKING EACH CONNECTION WITH THE OWNER.
- ALL DIP SHALL BE PROTECTED WITH A MINIMUM OF ONE WRAP OF POLYETHYLENE ENCASEMENT. LOCATIONS WHERE DIP IS TO BE DOUBLE WRAPPED WITH POLYETHYLENE ENCASEMENT, AND PCGP IS TO BE WRAPPED (SINGLE OR DOUBLE) WITH POLYETHYLENE ENCASEMENT ARE SPECIFIED AND INDICATED ON THE DRAWINGS.

GENERAL NOTES

- All work shall be in strict accordance with the minimum engineering and construction standards adopted by Seminole County, FDEP regulations, SJRWMD regulations, and all Seminole County ordinances.
- During all phases of construction, it shall be the Contractor's responsibility to perform the work included in this project where all materials, equipment, services, etc. used or provided conform to all O.S.H.A. requirements.
- Shop drawings of all materials being used shall be submitted to the Engineer for approval prior to installation.
- All materials and construction shall be in accordance with the project contract documents.
- It will be the responsibility of the Contractor to ensure that all required permits are obtained and in hand before beginning any construction. No construction or fabrication of any item shall begin until the Contractor has received all approved for construction plans and any other documentation from all of the permitting and any other regulatory authorities.
- If the Contractor proposes to discharge dewatering effluent offsite, the work shall comply with FDEP's "Generic Permit for Discharge of Produced Ground Water from any Non-Contaminated Site Activity". Permit requirements can be obtained from FDEP. This permit is independent and in addition to water management district's permits for construction dewatering.
- The location of all existing utilities and storm drainage shown on the plans have been determined from the best information available and are given for the convenience of the Contractor. The Engineer assumes no responsibility for inaccuracy. Prior to the start of any construction activity it shall be the Contractor's responsibility to notify the various utilities and to make the necessary arrangements for any relocation of these utilities with the Owner of the utility. The Contractor shall exercise caution when crossing an underground utility, whether shown on the plan or located by the utility company. All utilities which interfere with the proposed construction shall be brought to the attention of the Engineer first. Any fees associated with utility relocations shall be borne by the Contractor. It is the Contractor's responsibility to ensure utilities are relocated in accordance with respective utility company standards. It is requested that utility companies move their particular utilities. Any delay or inconvenience caused to the Contractor by the relocation of the various utilities shall be incidental to the contract and no extra compensation will be allowed.
- The Contractor shall notify the owner at least 72 hours prior to beginning construction and at least 72 hours before requiring inspection on each and every phase of work. The contractor shall notify the Engineer a minimum of 72 hours prior to any scheduled testing. No bacteriological testing, pressure testing, or final testing will be accepted unless witnessed by the Owner's representative.
- Contractor shall provide and install equipment for installation of security equipment by others as shown on the drawings.
- The Contractor shall be responsible for preventing any construction activities from taking place outside of the limits of construction shown on the plans. Any on-site or off-site areas disturbed shall be restored to original condition or better.
- The Contractor shall have available at the job site, at all times, one copy of the contract documents including stamped approved plans, specifications, and any special provisions, and copies of any required construction permits.
- All excess fill from the site shall be stockpiled by the Contractor in a location determined by the Owner or the Owner's representative.
- The Contractor shall protect and maintain all utilities and other improvements shown on these plans and all other utilities and other improvements not shown. The Contractor shall be responsible for all repairs of the utilities and other improvements damaged during construction as directed by the Engineer, at no additional cost to the Owner, and shall maintain sufficient protection to all utilities required to protect them from damage and to protect the public during construction. The Contractor shall properly locate all utility mains at proposed tie-in locations to confirm actual location, size, elevation and material prior to ordering any new material.
- The Contractor shall notify Sunshine State One-Call of Florida for location of existing facilities in the field 48 hours prior to beginning construction..
- Any discrepancies on the drawings shall be brought to the attention of the Engineer prior to commencing work.
- Before any modified portion of the water treatment system is to be placed in service, it shall be disinfected in accordance with the requirements of AWWA standards C651, and its disinfection shall be demonstrated by bacteriological tests conducted by an approved laboratory, acceptable by the Engineer and the Florida Department of Environmental Protection. All copies of required test results are to be sent to Seminole County directly from the testing agency.
- The Contractor is responsible for the proper disposal of all materials and debris removed from the project site. Disposal of the materials and debris shall conform with all local, state, and federal regulations.
- Two (2) 4A-60B-C Halotron 1 fire extinguishers shall be provided for the pavilion.

Parent Sheet Set:168000_GB Water Prize/Plot by:WOLET VANATTA Rev on: 7/5/2019 12:28 PM Individual File Path:R:\Projects\168000 - George Barley Water Prize\Design\Drawings\FinalDesign_2018\G04.dwg



A	07/2019	60% DRAWINGS	VVV
REV	DATE	DESCRIPTION	BY

Issue Certification	
Designed	GWD
Drawn	VVV
Checked	GWD
Reviewed	---
Approved	---
Glenn W Dunkelberger, P.E. Florida P.E. No. 38310	

THE EVERGLADES FOUNDATION EVERGLADES FOUNDATION GEORGE BARLEY WATER PRIZE GENERAL GENERAL CONSTRUCTION NOTES
LINE IS 1" AT FULL SIZE

PROJECT NO.: 168000	
SCALE: NOTED	REVISION: A
DRAWING NO. G04	SHEET NO.: 04 OF XX




REISS ENGINEERING, INC. 1016 SPRING VILLAS PT. WINTER SPRINGS, FL 32708 (407) 679-5358 CERTIFICATE OF AUTH. 8181	
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ABBREVIATIONS

A ACID, AIR ANCHOR BOLT ABANDON(ED) ACRYLONITRILE BUTADIENE STYRENE AIR CONDITIONER, (ING) ASPHALT-COATED CORRUGATED METAL PIPE ASBESTOS CEMENT PIPE ADDITIONAL ADHESIVE ADJUSTABLE, ADJACENT ADMINISTRATION ABOVE FINISH FLOOR AIR HANDLING UNIT ALTERNATE, (IVE) ALUMINUM ANGLE OF DEFLECTION ACCESS PANEL APPROACH APPROXIMATE, (LY) ARCHITECTURAL AIR RELEASE VALVE AIR RELEASE AND VACUUM VALVE ASSEMBLY AUTOMATIC AUXILIARY AUTOMATIC VALVE STATION AMERICAN WIRE GAGE	B BEGIN CURVE BALL CHECK VALVE BLIND FLANGE BACKFLOW PREVENTER BUTTERFLY VALVE BURIED GEAR OPERATOR BLACK IRON BLACK IRON PIPE BITUMINOUS BREAKER BUILDING BLOCK BENCHMARK BACK OF CURB BOTTOM OF FOOTING BOTTOM OF SLAB, BOTTOM OF SLOPE BOTTOM BEARING BELL AND SPIGOT BASEMENT BLACK STEEL PIPE BRITISH THERMAL UNIT BRITISH THERMAL UNIT-HOUR BELL-UP BALL VALVE BEGIN VERTICAL CURVE BACKWASH WATER	C CENTER TO CENTER CABLE TELEVISION COMBINATION AIR VALVE CATCH BASIN CHLORINE CONTACT CHAMBER CUBIC FOOT CUBIC FEET PER MINUTE CUBIC FEET PER SECOND CURB AND GUTTER CHECKERED CAST IRON, CUBIC INCH CAST IRON MANHOLE CAST IRON MANHOLE STEPS CAST IRON PIPE CAST IRON SOIL PIPE CONSTRUCTION JOINT CONTROL JOINT CENTERLINE CHAIN LINK FENCE CLEAR, (ANCE) CORRUGATED METAL PIPE CONCRETE MASONRY UNIT CLEAN OUT, COMPANY CHEMICAL OXYGEN DEMAND COMBINATION COMBINED SEWER COMPRESSOR, (ED) CONCRETE CONNECTION CONSTRUCT, CONSTRUCTION CONTINUOUS(LY), CONTINUATION COPPER PIPE CORNER CORRIDOR, CORRUGATED CONCRETE PIPE COUPLING CONCRETE PRESSURE PIPE CHLORINATED POLYVINYL CHLORIDE CHLORINE SOLUTION CENTER(S) CONTROL CHECK VALVE COLD WATER CUBIC YARD	D DOUBLE DEGREE DEPARTMENT DETAIL DIESEL FUEL DROP INLET, DUCTILE IRON DIAMETER DIFFUSER DIMENSION DUCTILE IRON PIPE DISCHARGE DISPENSER DISTRIBUTION DIVISION DISMANTLING JOINT DAMPER MOTOR DROP MANHOLE DOUBLE MECHANICAL JOINT DOWN DOOR OPENING, DISSOLVED OXYGEN DRAIN DOWNSPOUT DRAIN VALVE, DIAPHRAGM VALVE DISINFECTED WATER DRAWING(S) DOWL(S) DRAIN, WASTE, AND VENT	E EAST(ING), ELECTRICAL EACH END CURVE ECCENTRIC EMERGENCY EYEWASH EACH FACE EFFLUENT ELEVATED GEAR OPERATOR EXPANSION JOINT ELEVATION ELASTOMERIC ELECTRIC, (AL) ELEVATOR ELBOW - PLUMBING SMALLER THAN 4" EMERGENCY ENCASEMENT ENCLOSURE ENTRANCE END OF LINE EDGE OF PAVEMENT ETHYLENE PROPYLENE DIENE MONOMER EQUAL EQUIPMENT ESTIMATE ELECTRIC VALVE ACTUATOR EACH WAY EACH WAY EACH FACE EXCHANGER EXISTING EXPANSION, EXPOSED EXTENSION, EXTERIOR, EXTERNAL FACE TO FACE FABRICATED FLEXIBLE CONNECTION, FLOW CONTROL FLANGED COUPLING ADAPTER FLOW-CONTROL VALVE FLOOR DRAIN, FOUNDATION DRAIN FOUNDATION FILTER EFFLUENT FINISH FLOOR FIBERGLASS FIRE HYDRANT FIGURE FINISH FLOOR, FLOW LINE FLEXIBLE FLANGE FORCE MAIN, FLOW METER FLAT ON BOTTOM FLAT ON TOP FEET PER MINUTE FEET PER SECOND FIBERGLASS REINFORCED PLASTIC FAR SIDE, FLOOR SLEEVE, FLOAT SWITCH FOOT FURNISH, FURNISHED FLAP VALVE FINISHED WATER FORWARD	F FACE TO FACE FABRICATED FLEXIBLE CONNECTION, FLOW CONTROL FLANGED COUPLING ADAPTER FLOW-CONTROL VALVE FLOOR DRAIN, FOUNDATION DRAIN FOUNDATION FILTER EFFLUENT FINISH FLOOR FIBERGLASS FIRE HYDRANT FIGURE FINISH FLOOR, FLOW LINE FLEXIBLE FLANGE FORCE MAIN, FLOW METER FLAT ON BOTTOM FLAT ON TOP FEET PER MINUTE FEET PER SECOND FIBERGLASS REINFORCED PLASTIC FAR SIDE, FLOOR SLEEVE, FLOAT SWITCH FOOT FURNISH, FURNISHED FLAP VALVE FINISHED WATER FORWARD	G GAS GAUGE GALLON GALVANIZED GAS CHROMATOGRAPH/MASS SPECTROMETER GENERAL, GENERATOR GALVANIZED IRON PIPE GROOVE JOINT GAS METER GROUND GEAR OPERATED GALLONS PER DAY GALLONS PER HOUR GALLONS PER MINUTE GALLONS PER SECOND GRADE GALVANIZED STEEL GALVANIZED STEEL PIPE GROUND STORAGE RESERVOIR GROUND STORAGE TANK GATE VALVE	H HIGH, HOUR, HYDROGEN HOSE BIBB HORIZONTAL DIRECTIONAL DRILL HIGH-DENSITY POLYETHYLENE HEAT EXCHANGER HEXAGONAL HOSE FAUCET HYDROFLUOSILICIC ACID HARNESSED FLANGED COUPLING ADAPTER HANDHOLE HIGH LEVEL SWITCH HARNESSED MECHANICAL COUPLING HARNESSED MECHANICAL JOINT HORIZONTAL HIGH POINT, HORSEPOWER HIGH PRESSURE AIR HOUR, HANDRAIL HIGH STRENGTH HIGH SERVICE PUMP HEIGHT HOSE VALVE HYDRAULIC VALVE ACTUATOR HEATING, VENTILATING AND AIR CONDITIONING HOT WATER HIGH WATER LEVEL HIGHWAY HYDRAULIC HYDROPNEUMATIC	I INDICATOR INSIDE DIAMETER INSIDE FACE INCH(ES) INCORPORATED INCLUDING INCREASE INFLUENT INSTRUMENT, (ATION) INSULATE, (ED), (ING) INTERIOR, INTERNAL INVERT IRON PIPE INTERNATIONAL PIPE STANDARD INTERNAL RECYCLE IRRIGATION WATER JUNCTION BOX JOINT FILLER JOINT KNIFE GATE VALVE KNOCK OUT LEVEL, LOUVER LABORATORY LAMINATE(D) LATERAL LAVATORY POUNDS LINEAR FEET LENGTH, LONG LEFT HAND LINEAR HIGH-DENSITY POLYETHYLENE LINEAL LINEAR LOUVER OPENING LONG RADIUS LIFT STATION LEFT LEFT WATER LEVEL MACHINE MAINTENANCE MANUAL MAXIMUM MECHANICAL COUPLING MOTOR CONTROL CENTER MECHANICAL MEDIUM METAL MITERED END SECTION MICROFILTRATION MAGNETIC FLOWMETER MANUFACTURER(S) MILLION GALLONS MILLION GALLONS PER DAY MANHOLE MINIMUM, MINUTE MISCELLANEOUS MECHANICAL JOINT MECHANICAL JOINT RETAINER GLAND MECHANICAL JOINT WITH TIE ROD MIXED LIQUOR MASONRY OPENING, MOTOR OPERATED METERING PUMP MILES PER HOUR METAL REINFORCED PLASTIC PIPE MEAN SEA LEVEL MOUNTED MATERIAL MOTOR MOTORIZED VALVE MANWAY MEAN WATER LEVEL	J NORTH(ING) NOT APPLICABLE SODIUM HYPOCHLORITE NAIL IN BOTTLE CAP NORMALLY CLOSED NORTHEAST NANOFILTRATION NOT IN CONTRACT NORMALLY OPEN NUMBER(S) NOMINAL NORMAL NATIONAL PIPE TAPER NONPOTABLE WATER NEAR SIDE NOT TO SCALE NORTHWEST ON CENTER, ODOR CONTROL OUTSIDE DIAMETER OUTSIDE FACE, OVERFLOW OVERHEAD SUBSTANDARD EFFLUENT ORIFICE PLATE OPERATING OPENING OPPOSITE OPTIONAL OUNCE PLASTIC BALL VALVE POINT OF CURVE POINT OF COMPOUND CURVATURE PRESTRESSED CONCRETE CYLINDER PIPE PLAIN END POLYETHYLENE PIPE PERMEATE PRESSURE GAUGE PIPE HANGER, POST HYDRANT POINT OF INTERSECTION POINT OF INTERSECTION ON VERTICAL CURVE PUSH-ON JOINT PROPERTY LINE PLATE PROCESS MECHANICAL PNEL(S) PINCH VALVE POINT OF BEGINNING POINT OF INTERSECTION POLYMER POUNDS PER DAY PARTS PER MILLION PROPOSED PRESSURE REDUCING STATION PRESSURE REDUCING VALVE PROCESS WATER PIPE SUPPORT, PUMP STATION POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POINT, POINT OF TANGENCY PLUG VALVE POLYVINYL CHLORIDE POLYVINYL CHLORIDE (DOUBLE CONTAINED) POLYVINYL CHLORIDE PIPE POLYVINYLIDENE FLUORIDE (KYNAR) PAVEMENT POTABLE WATER QUANTITY RADIUS, RISER RETURN ACTIVATED SLUDGE RAW WATER REINFORCED CONCRETE BOX REINFORCED CONCRETE CYLINDER PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE REINFORCED CONCRETE PIPE RECLAIM WATER ROOF DRAIN, ROAD RECIRCULATING RECEPTACLE REDUCER, REDUCING REUSE EFFLUENT WATER REGULATOR, REGULATING REFERENCE REINFORCING REJECT REMOVABLE REQUIRED RETURN REVISION, REVISED, REVERSED RETURN EFFLUENT WATER RETAINER GLAND RESTRAINED JOINT (BELL) RESTRAINED MECHANICAL JOINT RANGE REVERSE OSMOSIS RADIUS OF CURVATURE REVOLUTIONS PER MINUTE REDUCED PRESSURE ZONE BACKFLOW PREVENTER RAILROAD RAW SLUDGE, RAW SEWAGE RIGHT RIGHT OF WAY RAW WASTEWATER	K N N/A NoOCI NBC N.C. NE NF N.I.C. N.O. NO.(S) NOM NORM NPT NFW NS N.T.S. NW OC OD OF OH O&M OP OPER OPNG OPP OPT OZ PBV PC PCC PCCP PE PEP PERM PC PH PI PIVC PJ P/L PL PM PNL(S) PNV POB POI POLY PPD PPM PROP PRS PRV PRW PS PSF PSI PT PV PVC PVC-D PVCP PVDF PVMT PW QTY R RAS RAW RCB RCCP RCHCP RCP RCW RD RECIRC RECP RED REEW REG REF REINF REJ REM REQD RET REV REW RG RJ RMJ RNG RO ROC RPM RPZBP RR RS RT R/W RWW S SA SAN SCH SCV SD SE SECT SEFF SF SG SHT SIM SL SM SP SPA SPEC(S) SPLY SQ SS SSE SST ST STA STD STL STM STOR STR STRUC SV SVC SWW SW SWD SWR SWS SY SYM SYMM SYS T TAN T&B TB TBE TBM TC TDH TEL TEMP TERM TH THK THRD TJ TOB TOC TOF TOS TRANS TS TV TWP TYP UD UDM UG UGE UNO USGS UTC UTIL UV V VAC VB VC VCD VCP VERT VF VFD VIB VS VTR VV VVB SOUTH SAMPLE LINE SANITARY SCHEDULE SILENT CHECK VALVE STORM DRAIN SOUTHEAST SECTION SECTION SECONDARY EFFLUENT SQUARE FOOT SLUICE GATE SHEET SIMILAR SLUDGE SHEET METAL SUMP PUMP SPACING, SPACES SPECIFICATION(S) SUPPLY SQUARE SANITARY SEWER SUBSTANDARD EFFLUENT STAINLESS STEEL SELF TAPPING STATION STANDARD STEEL STORMWATER STORAGE STRAIGHT STRUCTURAL SHUTOFF VALVE, SOLENOID VALVE SERVICE SERVICE WATER SOUTHWEST SIDE WATER DEPTH SEWER SEAL WATER SOLENOID SQUARE YARD SYMBOL SYMMETRICAL SYSTEM TELEPHONE, TOP TANGENT TOP AND BOTTOM TERMINAL BOX THREAD BOTH ENDS TEMPORARY BENCHMARK TOP OF CURB TOTAL DYNAMIC HEAD TELESCOPING TEMPERATURE, TEMPORARY TERMINAL TEST HOLE THICK, THICKNESS THREADED TIED JOINT TOP OF BANK TOP OF CONCRETE TOP OF FOOTING TOP OF SLAB TRANSFORMER, TRANSMITTER, TRANSFER THICKENED SLUDGE TELEVISION TOWNSHIP TYPICAL UNDERDRAIN ULTRASONIC DENSITY METER UNDERGROUND UNDERGROUND ELECTRIC UNLESS NOTED OTHERWISE UNITED STATES GEOLOGICAL SURVEY UNDERGROUND TELEPHONE CABLE UTILITY ULTRAVIOLET VALVE, VENT VACUUM VALVE BOX VERTICAL CURVE, VICTAULIC COUPLING VERTICAL CONTROL DAMPER VITRIFIED CLAY PIPE VERTICAL VACUUM FILTER VARIABLE FREQUENCY DRIVE VIBRATION VARIABLE SPEED VENT THROUGH ROOF VENT VALVE VACUUM BREAKER	L WEST, WIDE, WATER WITH WASTE ACTIVATED SLUDGE WOOD, WIDTH WALL FITTING, WIDE FLANGE WALL HYDRANT, WATER HEATER WATER LEVEL WATER METER, WATER MAIN WINDOW OPENING WITHOUT WATERPROOF, WORKING POINT WASTE RECEPTACLE WATERSTOP WELDED STEEL PIPE WEIGHT WATER TREATMENT FACILITY WATER TREATMENT PLANT WET WELL, WASH WATER WELDED WIRE FABRIC WELDED WIRE MESH WASTEWATER TREATMENT FACILITY WASTEWATER TREATMENT PLANT	M BY, TIMES CROSS LINKED HIGH-DENSITY POLYETHYLENE YARD YARD HYDRANT YEAR AND AT DEFLECTION ANGLE GREATER THAN LESS THAN NUMBER PERCENT	N WEST, WIDE, WATER WITH WASTE ACTIVATED SLUDGE WOOD, WIDTH WALL FITTING, WIDE FLANGE WALL HYDRANT, WATER HEATER WATER LEVEL WATER METER, WATER MAIN WINDOW OPENING WITHOUT WATERPROOF, WORKING POINT WASTE RECEPTACLE WATERSTOP WELDED STEEL PIPE WEIGHT WATER TREATMENT FACILITY WATER TREATMENT PLANT WET WELL, WASH WATER WELDED WIRE FABRIC WELDED WIRE MESH WASTEWATER TREATMENT FACILITY WASTEWATER TREATMENT PLANT	O BY, TIMES CROSS LINKED HIGH-DENSITY POLYETHYLENE YARD YARD HYDRANT YEAR AND AT DEFLECTION ANGLE GREATER THAN LESS THAN NUMBER PERCENT	P BY, TIMES CROSS LINKED HIGH-DENSITY POLYETHYLENE YARD YARD HYDRANT YEAR AND AT DEFLECTION ANGLE GREATER THAN LESS THAN NUMBER PERCENT
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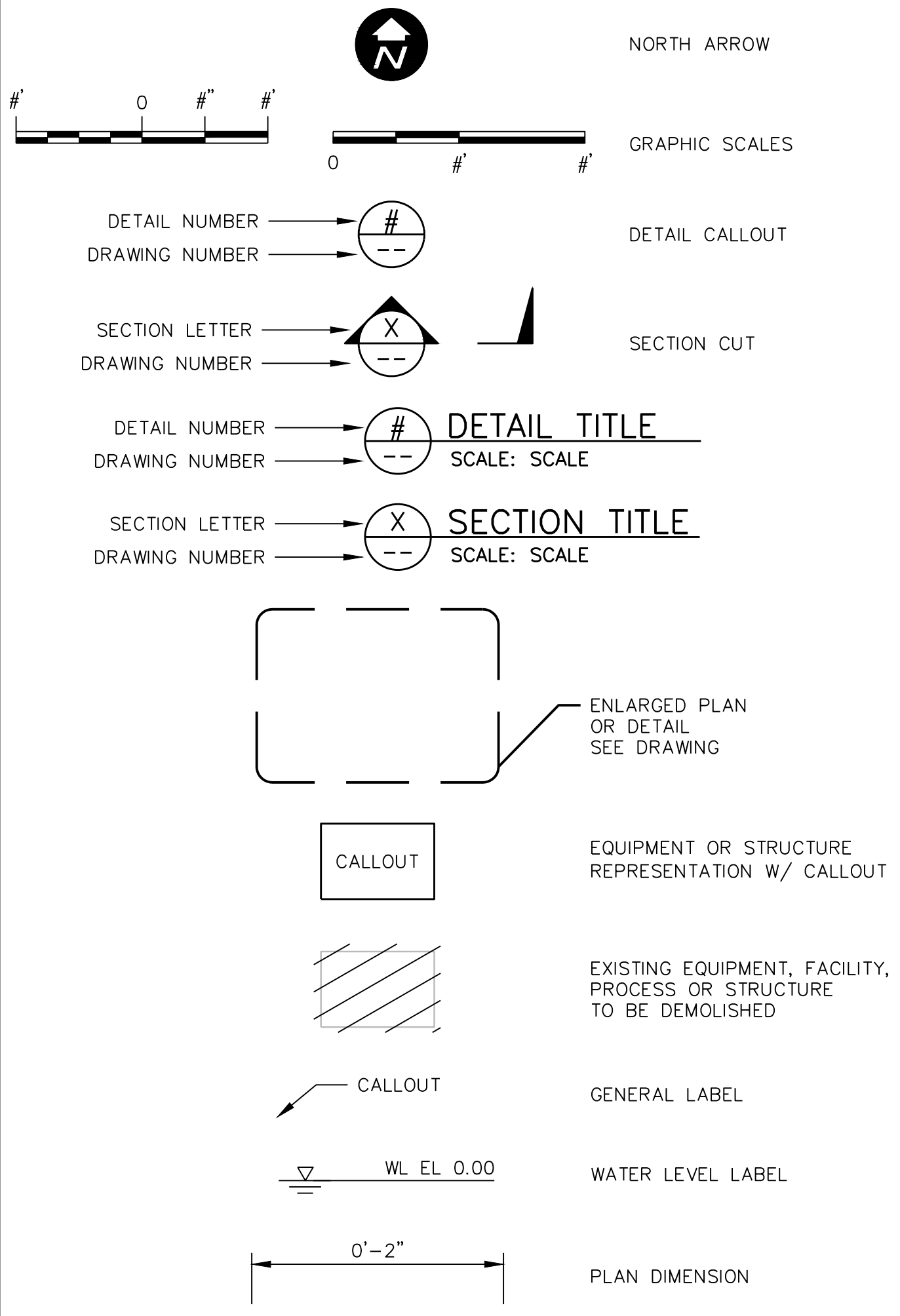
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				GENERAL		ABBREVIATIONS			SCALE: NOTED	REVISION: A	
									DRAWING NO. G05	SHEET NO.: 05 OF XX	
	A	07/2019	60% DRAWINGS	VVV	Glenn W Dunkelberger, P.E. Florida P.E. No. 36310					REISS ENGINEERING, INC. 1016 SPRING VILLAS PT. WINTER SPRINGS, FL 32708 (407) 679-5358 CERTIFICATE OF AUTH. 8181	
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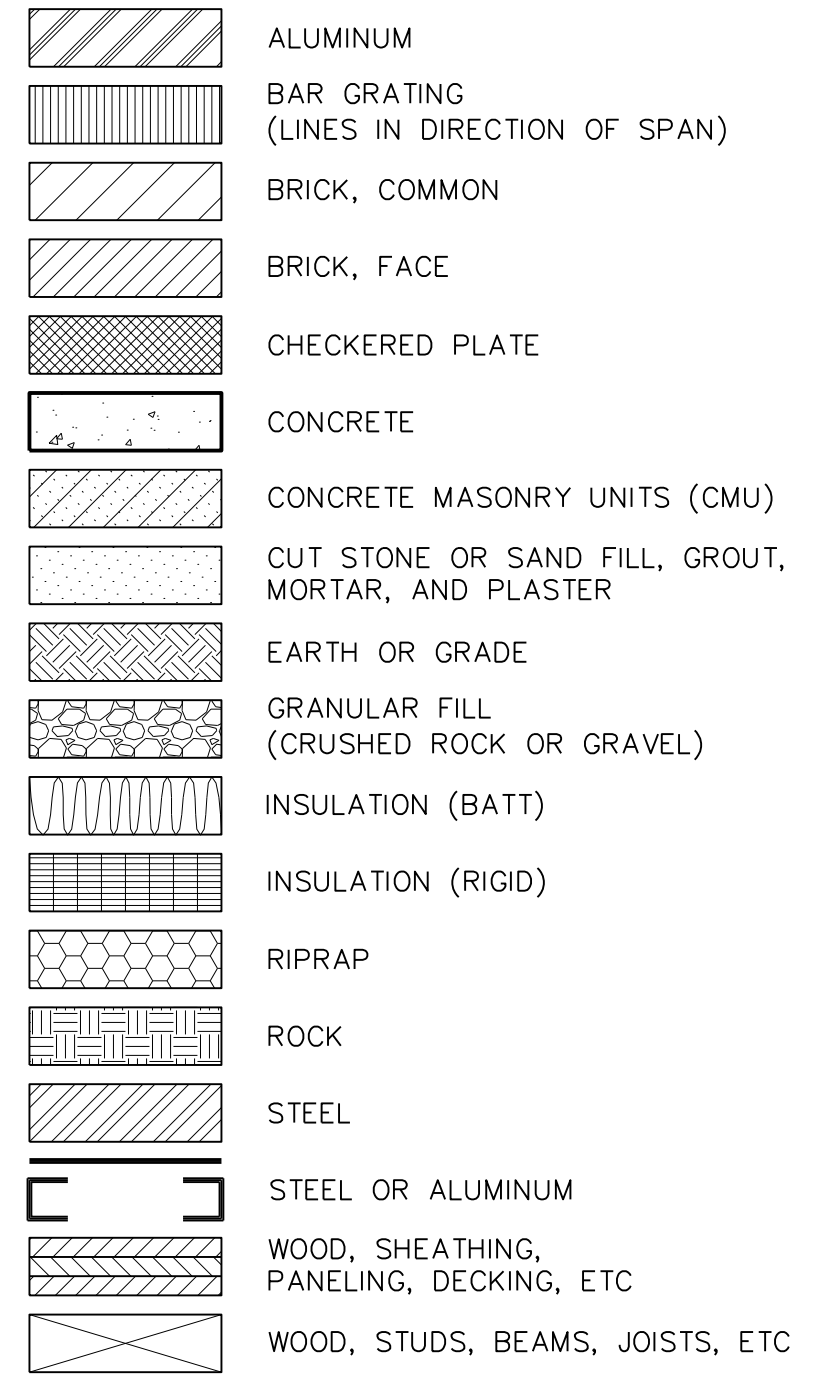
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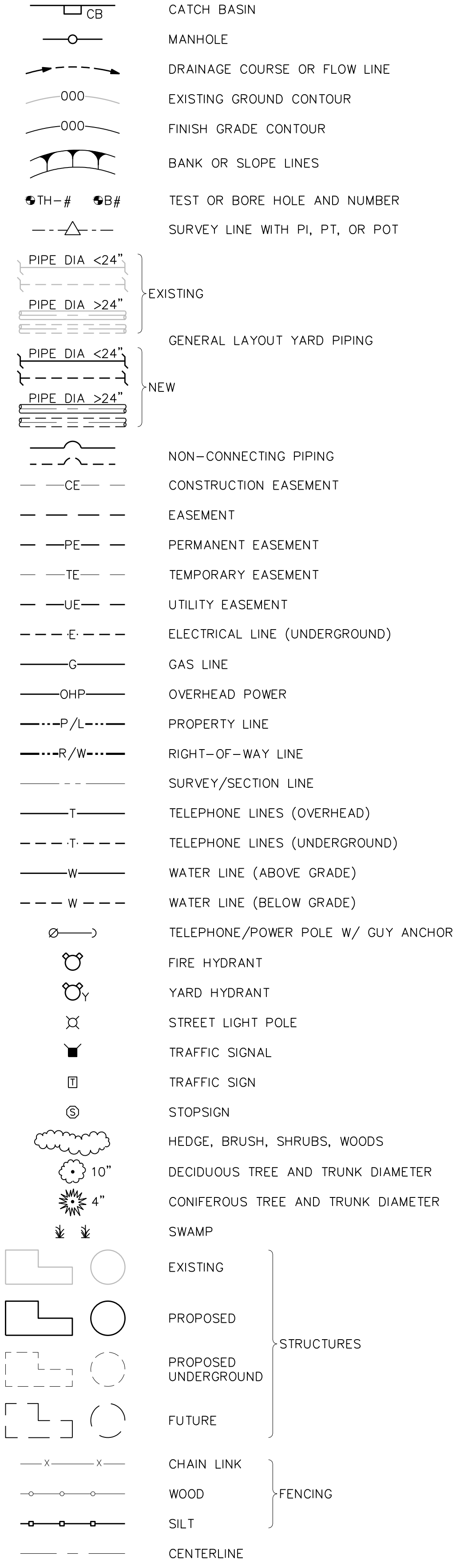
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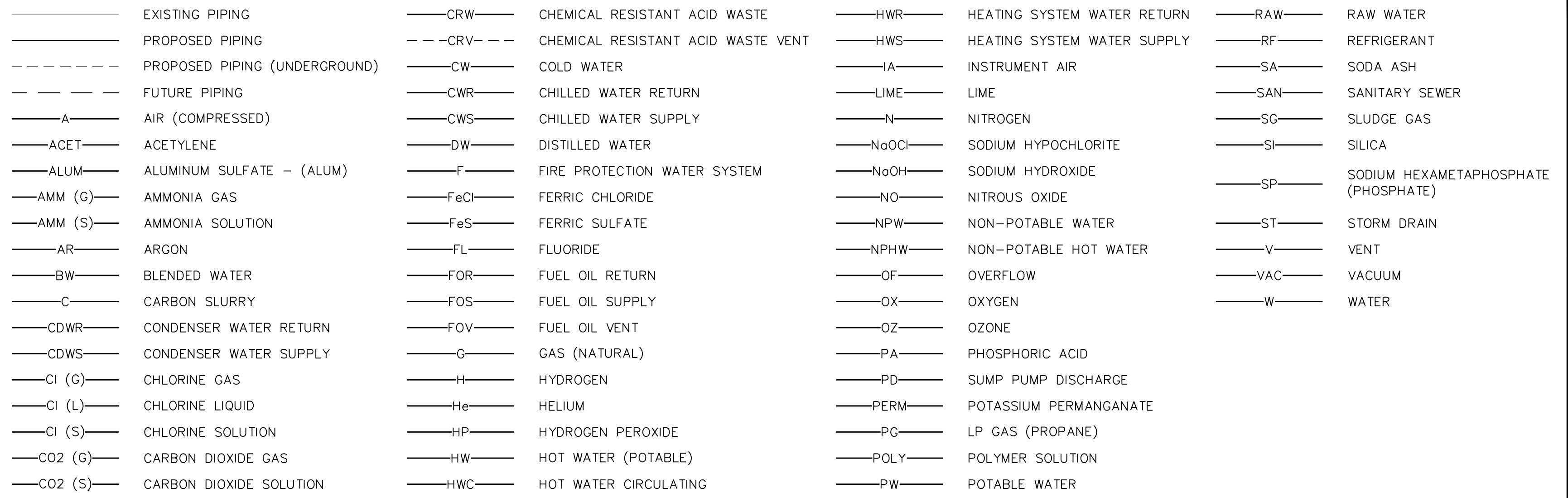
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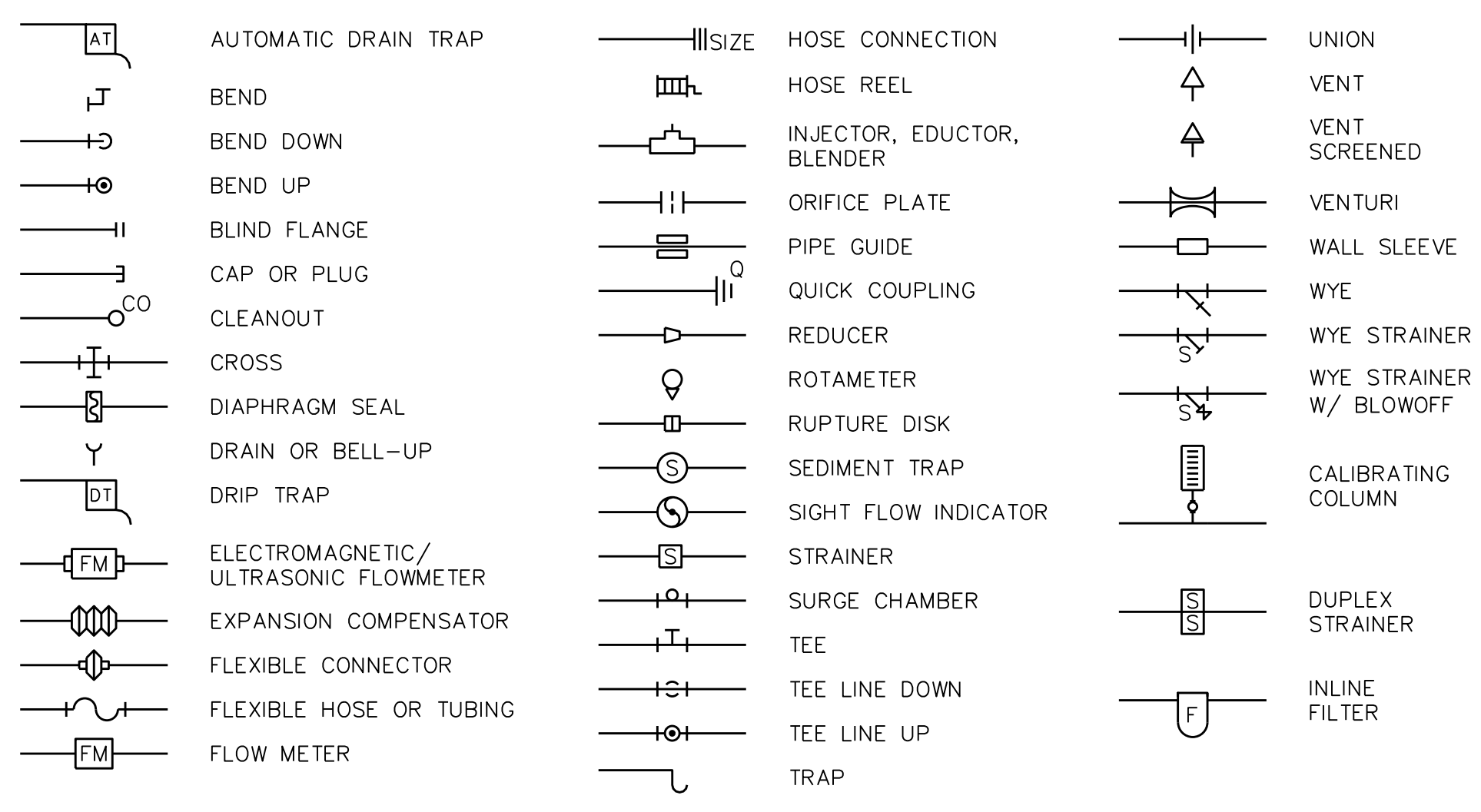
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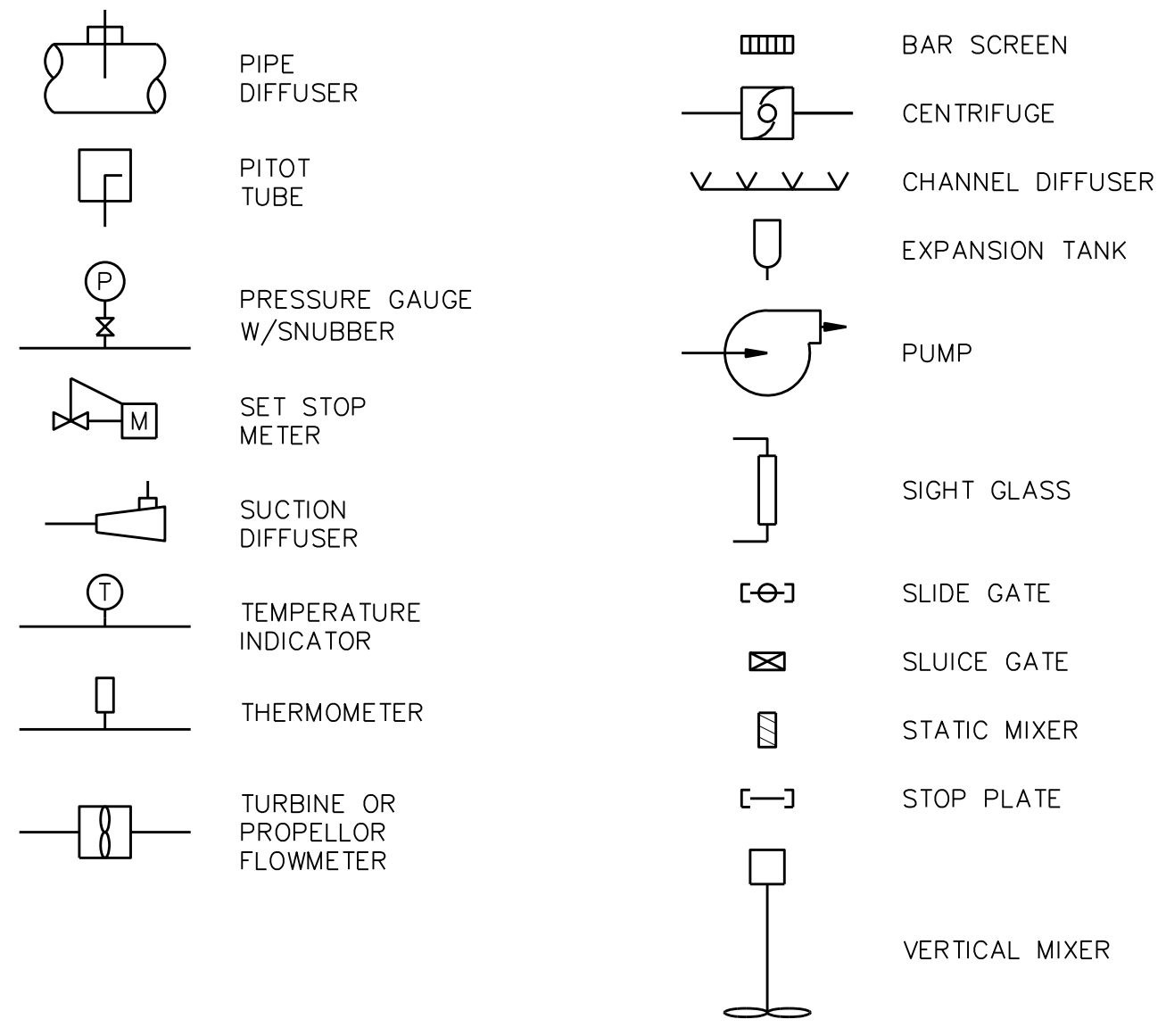
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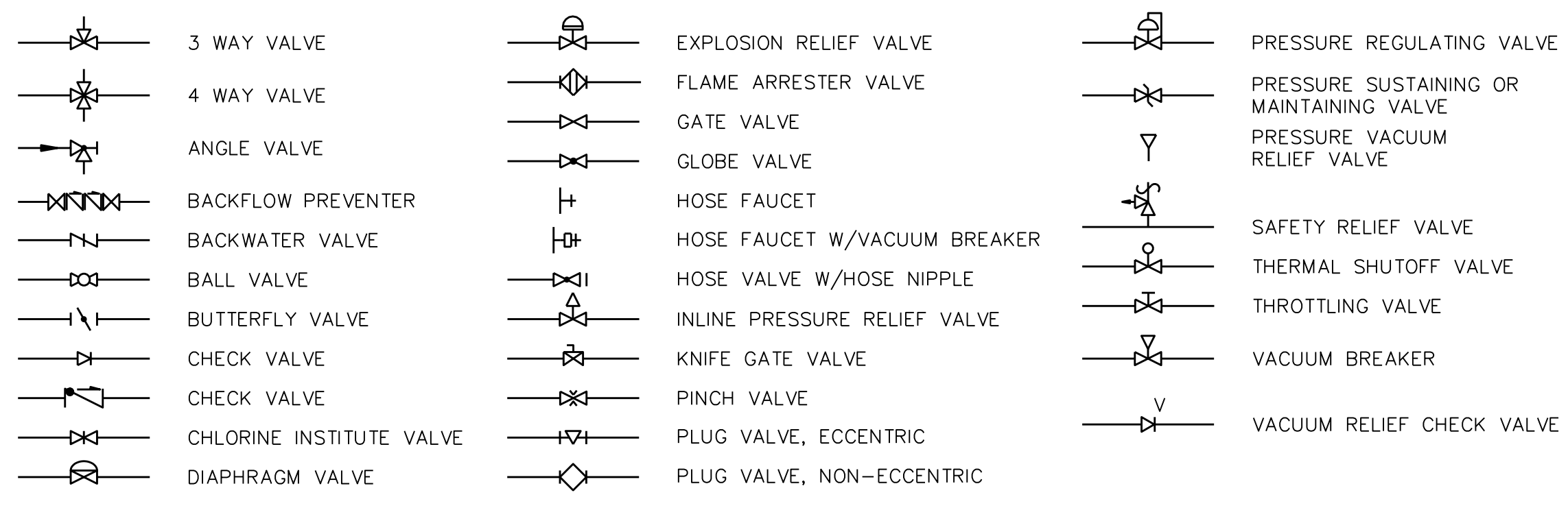
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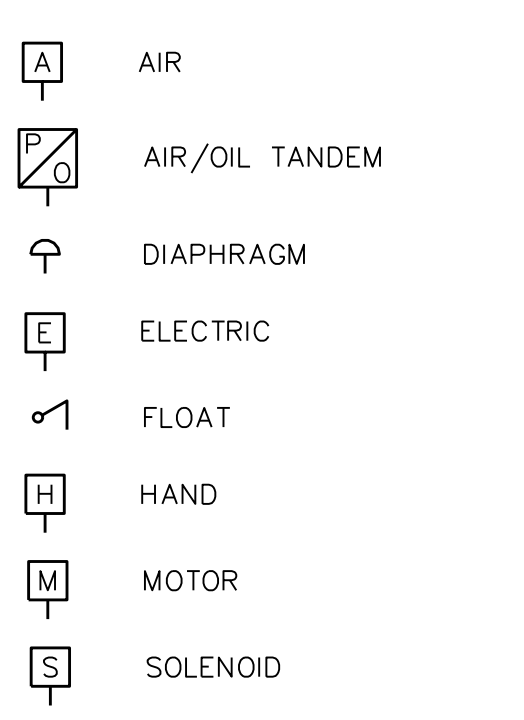
MISCELLANEOUS EQUIPMENT LEGEND



VALVE LEGEND



ACTUATOR LEGEND



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Approved	---

THE EVERGLADES FOUNDATION
EVERGLADES FOUNDATION GEORGE BARLEY WATER PRIZE

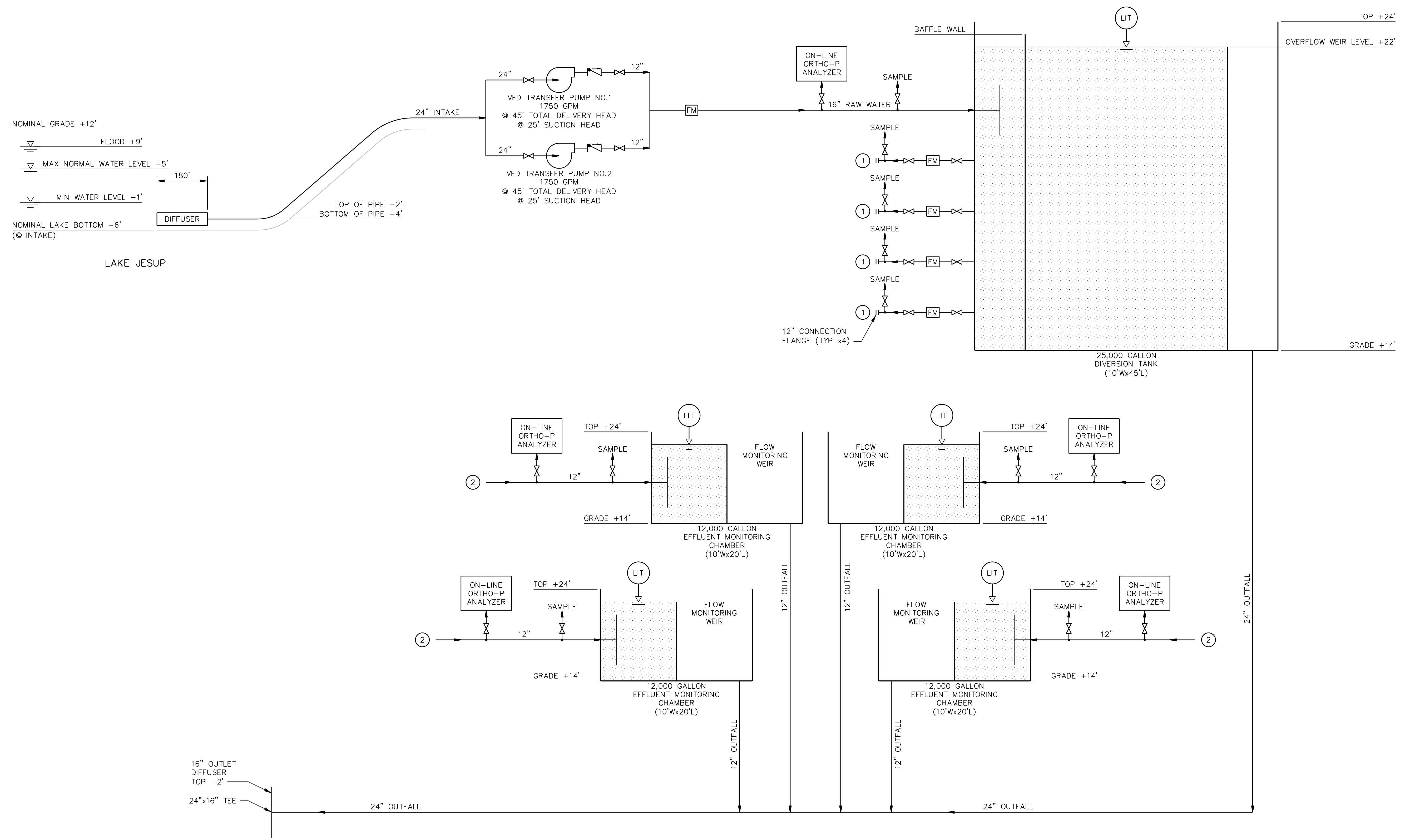
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SYMBOLS AND LEGENDS

PROJECT NO.: 168000	
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- NOTES**
1. ALL ELEVATIONS ARE FEET ABOVE/BELOW THE MEAN SEA LEVEL.
 2. ALL PIPE HDPE (DIPS) DR26.
- ① CONTSTANT RAW WATER CONNECTION
 ② CONTSTANT TREATED WATER DISCHARGE LOCATION



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Glenn W Dunkelberger, P.E.
 Florida P.E. No. 38310

Designed GWD
 Drawn VVV
 Checked GWD
 Reviewed ---
 Approved ---

LINE IS 1" AT FULL SIZE

THE EVERGLADES FOUNDATION
 EVERGLADES FOUNDATION GEORGE BARLEY WATER PRIZE

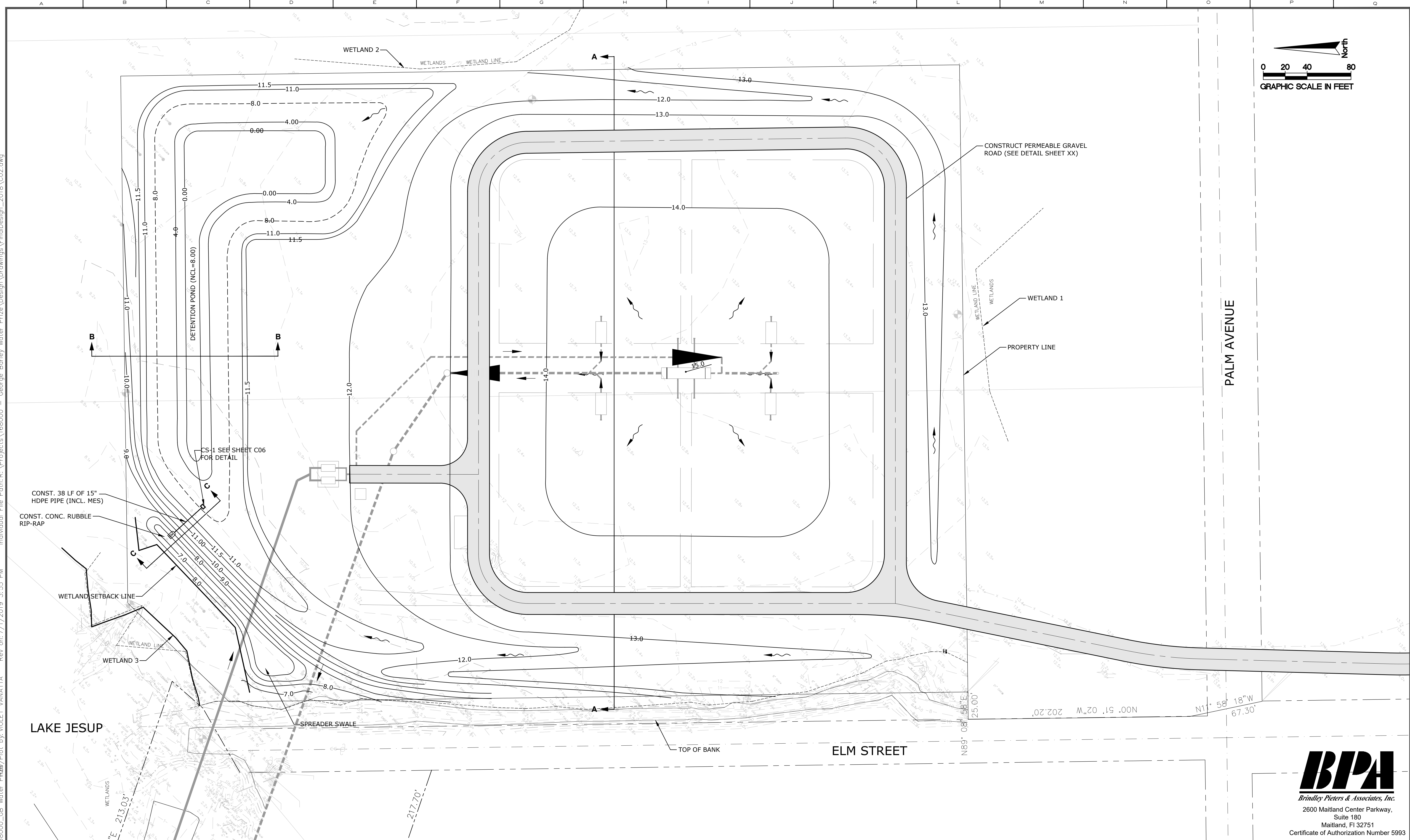
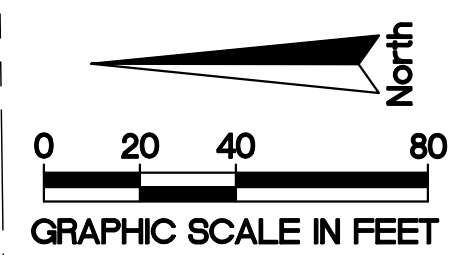
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FLOW SCHEMATIC

PROJECT NO.:	168000
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DRAWING NO.:	G07
SHEET NO.:	07 OF XX



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Checked	RA
Reviewed	RA
Approved	MRH
MICHAEL R. HARTER, P.E. Florida P.E. No. 81665	

Scale	1" = 1' AT FULL SIZE
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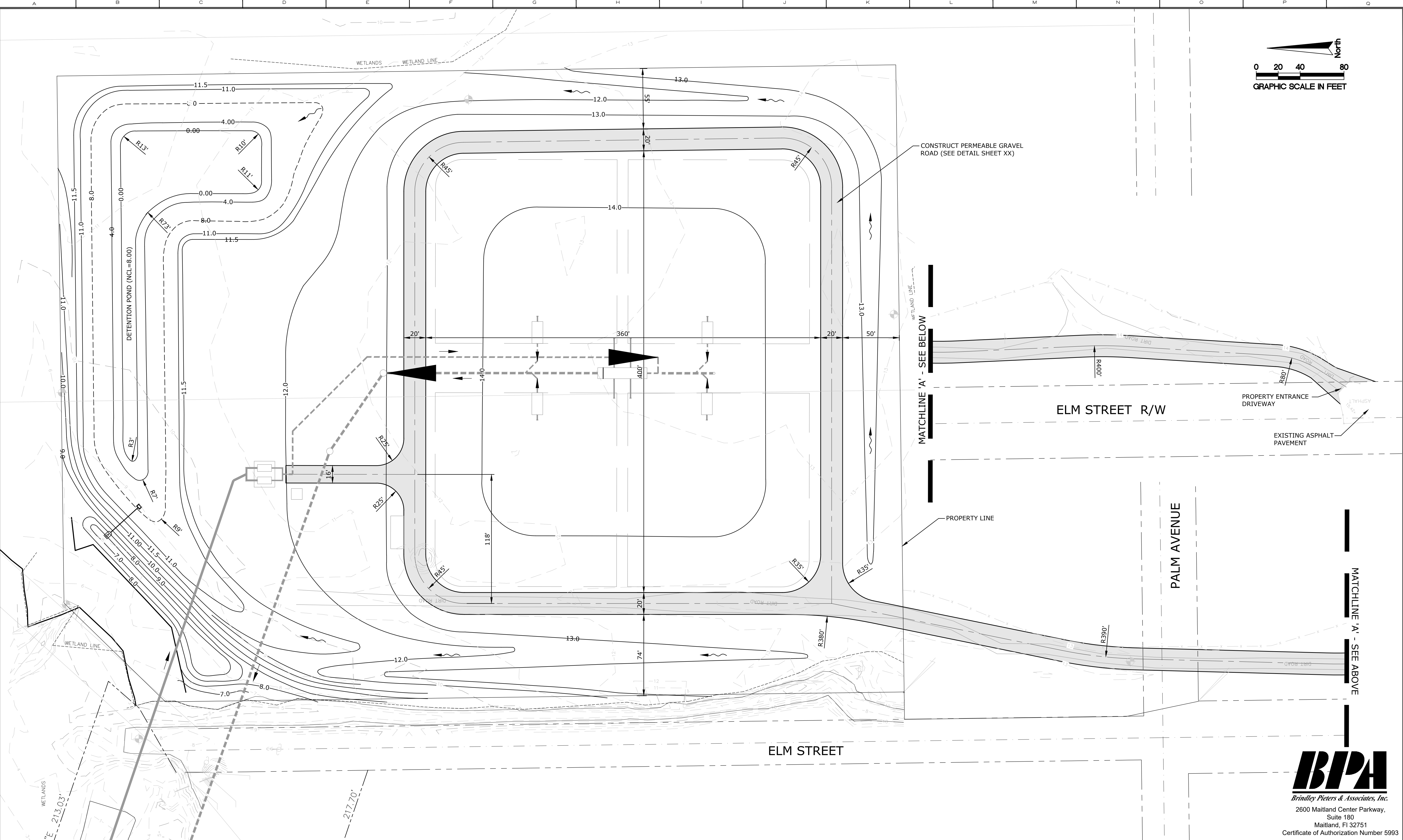
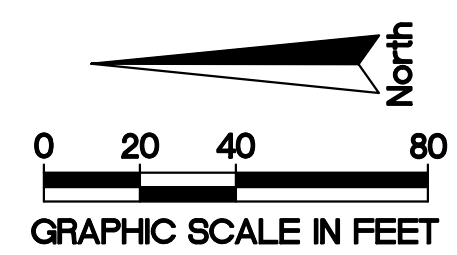
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EVERGLADES FOUNDATION GEORGE BARLEY WATER PRIZE
 CIVIL
PAVING, GRADING AND DRAINAGE PROPOSED

PROJECT NO.:	168000
SCALE:	NOTED
DRAWING NO.:	C02
REVISION:	A
SHEET NO.:	08 OF XX

BPA
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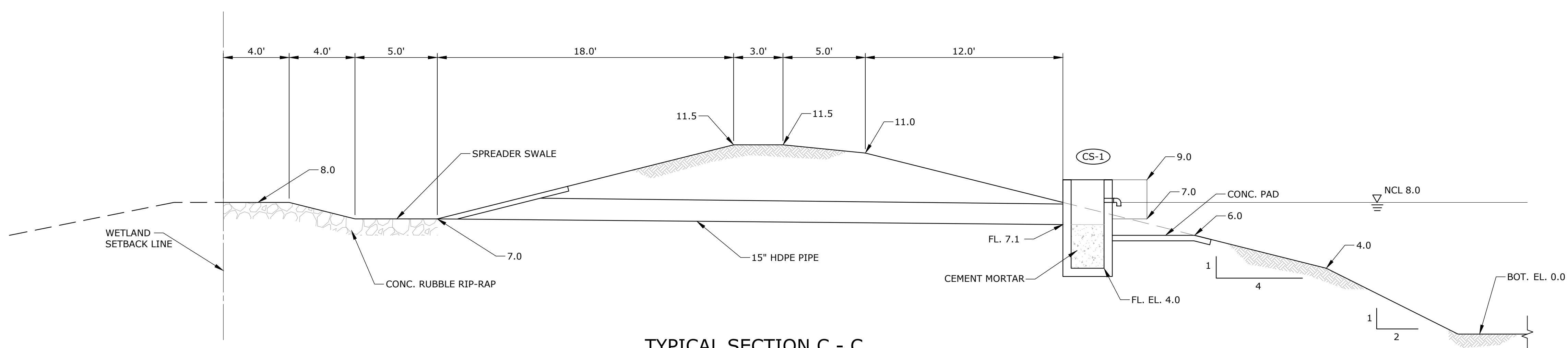
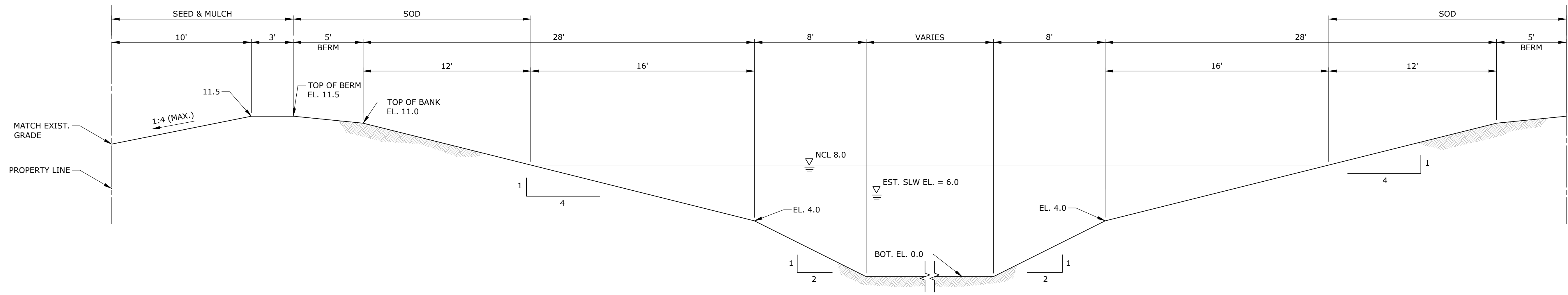
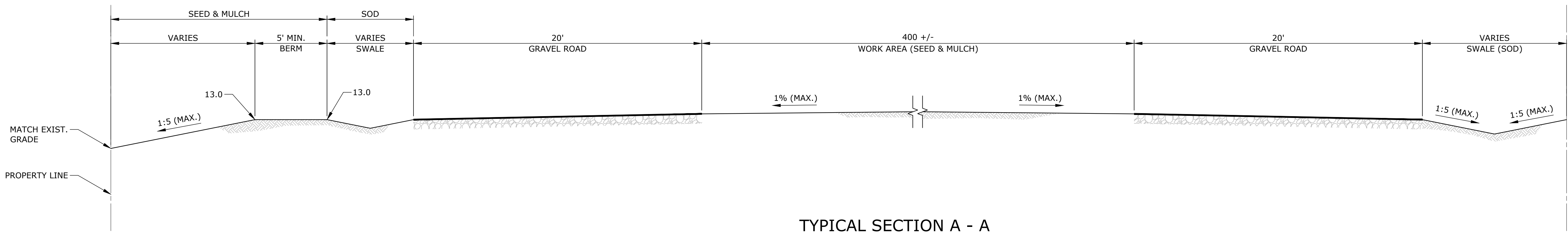
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Drawn	NJL
Checked	RA
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Approved	MRH

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EVERGLADES FOUNDATION GEORGE BARLEY WATER PRIZE
 CIVIL
GEOMETRY PLAN

PROJECT NO.:	168000
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DRAWING NO.:	C03
REVISION:	A
SHEET NO.:	09 OF XX



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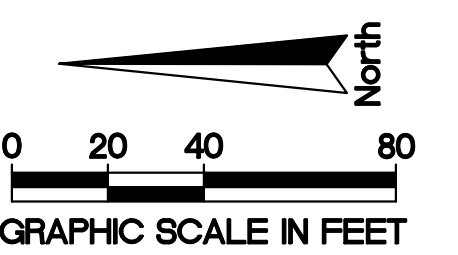
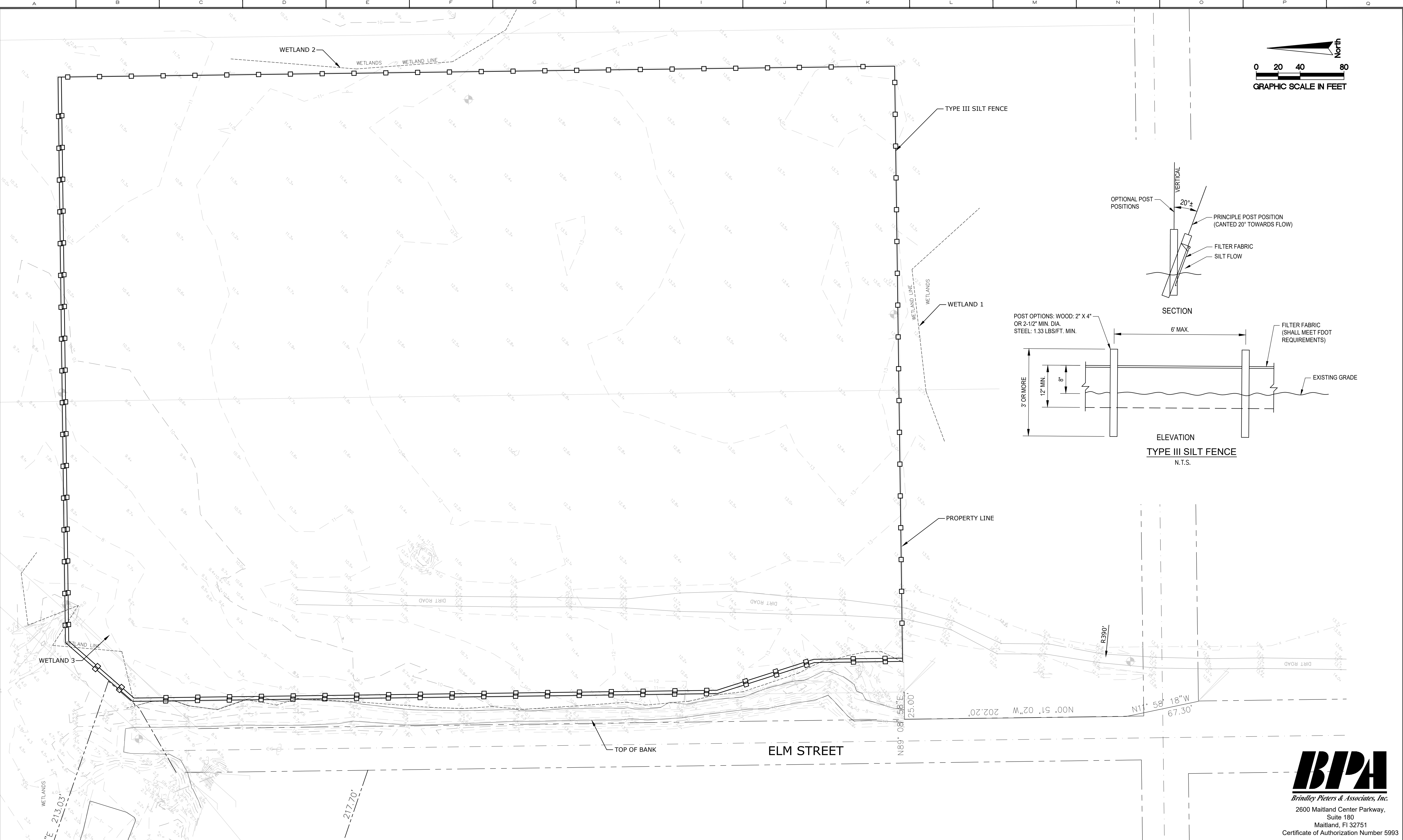
Designed RH
 Drawn NJL
 Checked RA
 Reviewed RA
 Approved MRH

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 EVERGLADES FOUNDATION GEORGE BARLEY WATER PRIZE
 CIVIL
 TYPICAL CROSS SECTIONS

PROJECT NO.:	168000
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SHEET NO.:	10 OF XX



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 Certificate of Authorization Number 5993

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CHECKED	RA
REVIEWED	RA
APPROVED	MRH
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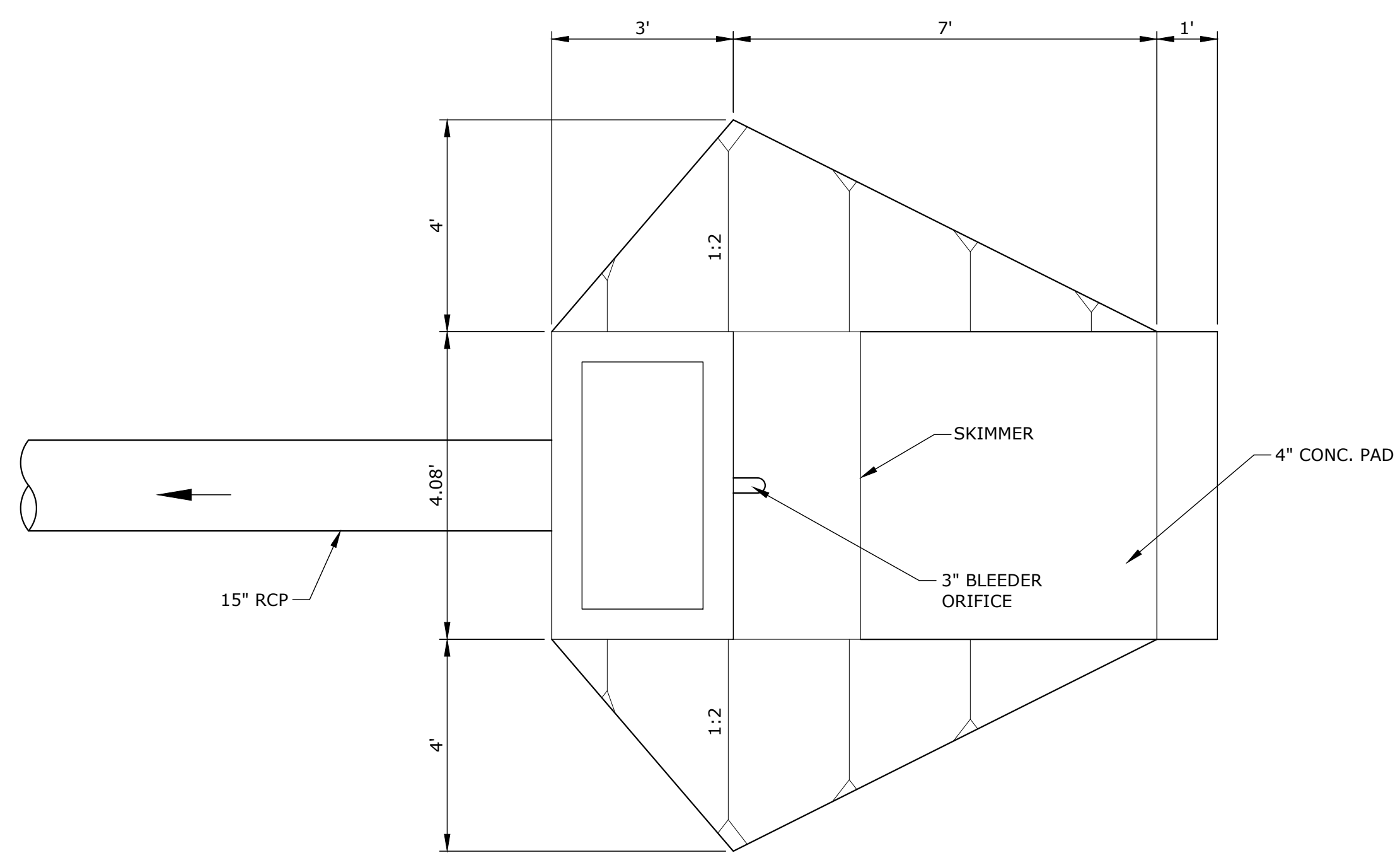
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DRAWN	NJL
CHECKED	RA
REVIEWED	RA
APPROVED	MRH
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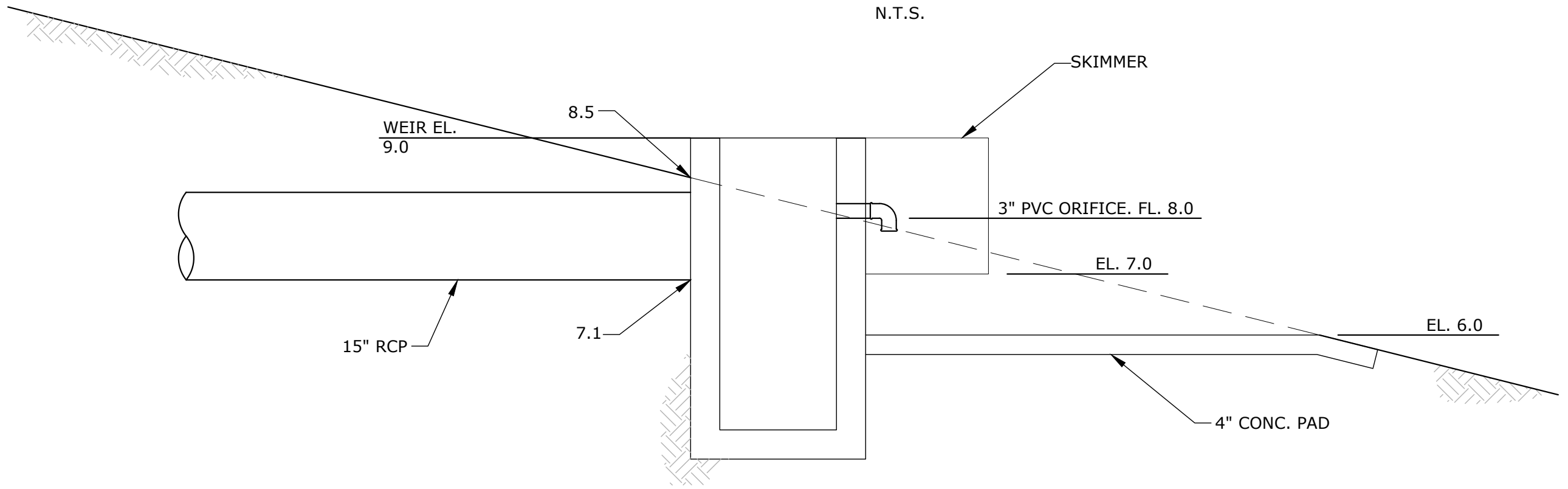
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PLAN
N.T.S.



SECTION
N.T.S.

CS-1
MODIFIED TYPE C INLET
N.T.S.

BPA
 Brinley Pieters & Associates, Inc.
 2600 Maitland Center Parkway,
 Suite 180
 Maitland, FL 32751
 Certificate of Authorization Number 5993



REV	DATE	DESCRIPTION	BY
A	07/2019	60% DRAWINGS	MRH

Issue Certification	
BY	DATE
MRH	07/2019

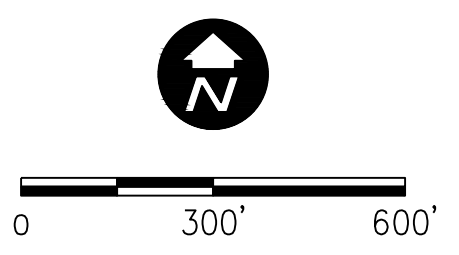
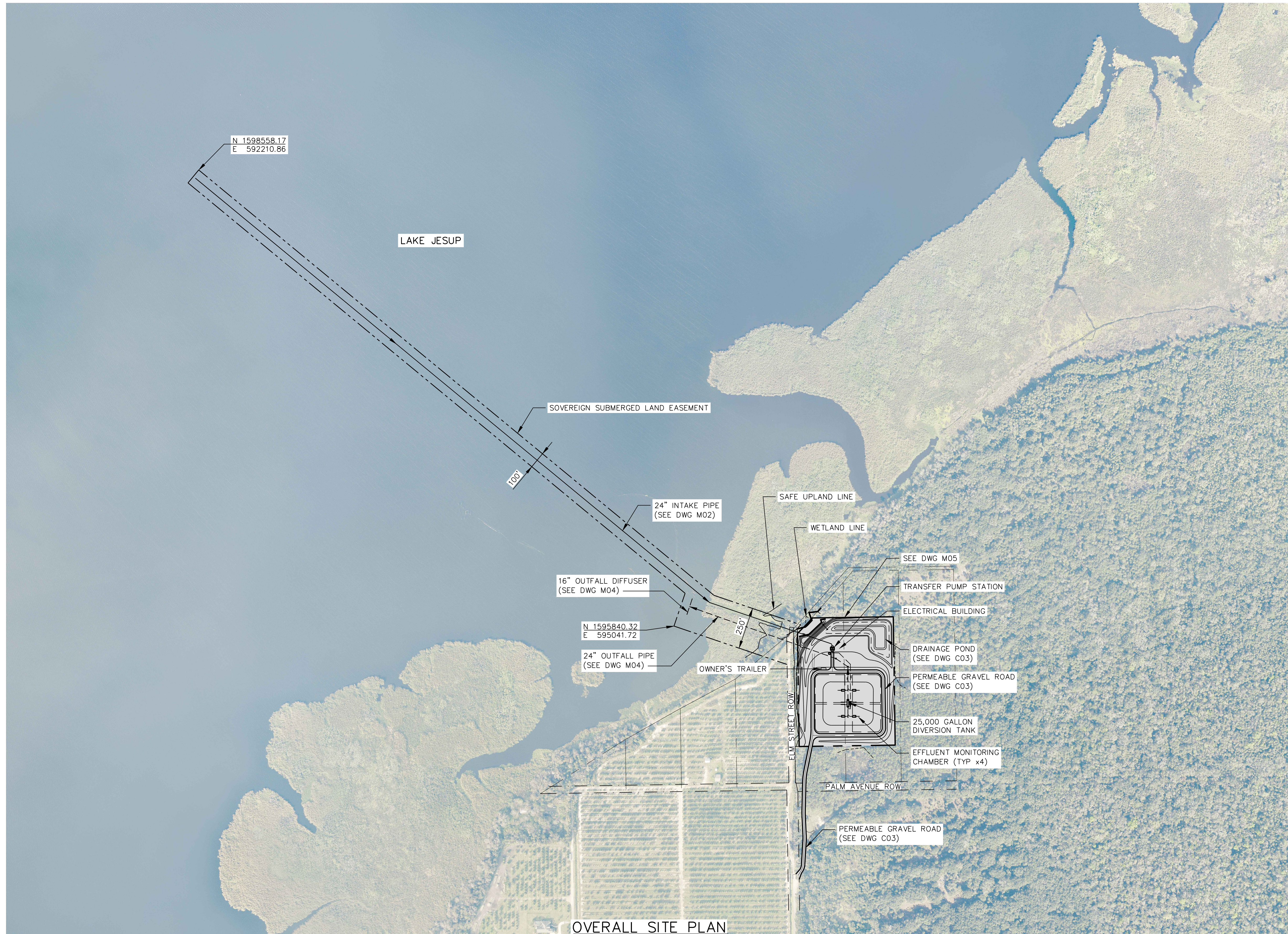
Designed	RH
Drawn	NJL
Checked	RA
Reviewed	RA
Approved	MRH

THE EVERGLADES FOUNDATION
 EVERGLADES FOUNDATION GEORGE BARLEY WATER PRIZE
 CIVIL
 CIVIL DETAILS

PROJECT NO.: 168000	
SCALE: NOTED	REVISION: A
DRAWING NO. C06	SHEET NO.: 12 OF XX

REISS ENGINEERING, INC.
 1016 SPRING VILLAS PT.
 WINTER SPRINGS, FL 32708
 (407) 679-5358

Parent Sheet Set: 168000_GB Water Prize; Plot by: WOLET, VANATTA Rev on: 7/5/2019 9:50 AM Individual File Path: R:\Projects\168000 - George Barley Water Prize\Design\Drawings\FinalDesign_2018\W01.dwg



OVERALL SITE PLAN



REV	DATE	DESCRIPTION	BY
A	07/2019	60% DRAWINGS	VVV

Issue Certification	
Designed	GWD
Drawn	VVV
Checked	GWD
Reviewed	XXX
Approved	XXX
Glenn W Dunkelberger, P.E. Florida P.E. No. 38310	

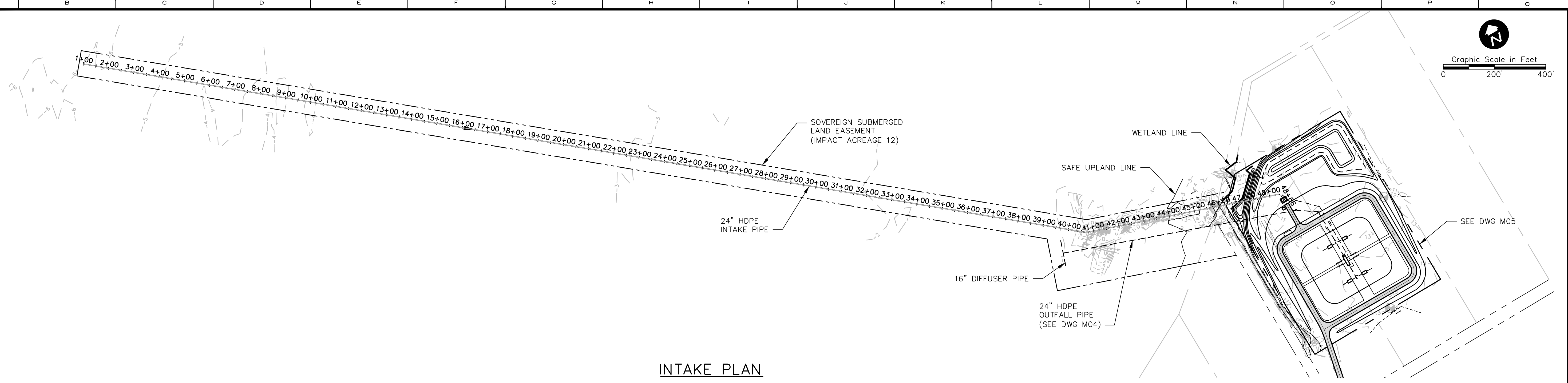
Scale:	1" = 100'
Full Size:	1" = 1" AT FULL SIZE

THE EVERGLADES FOUNDATION
 EVERGLADES FOUNDATION GEORGE BARLEY WATER PRIZE
 MECHANICAL
OVERALL SITE PLAN

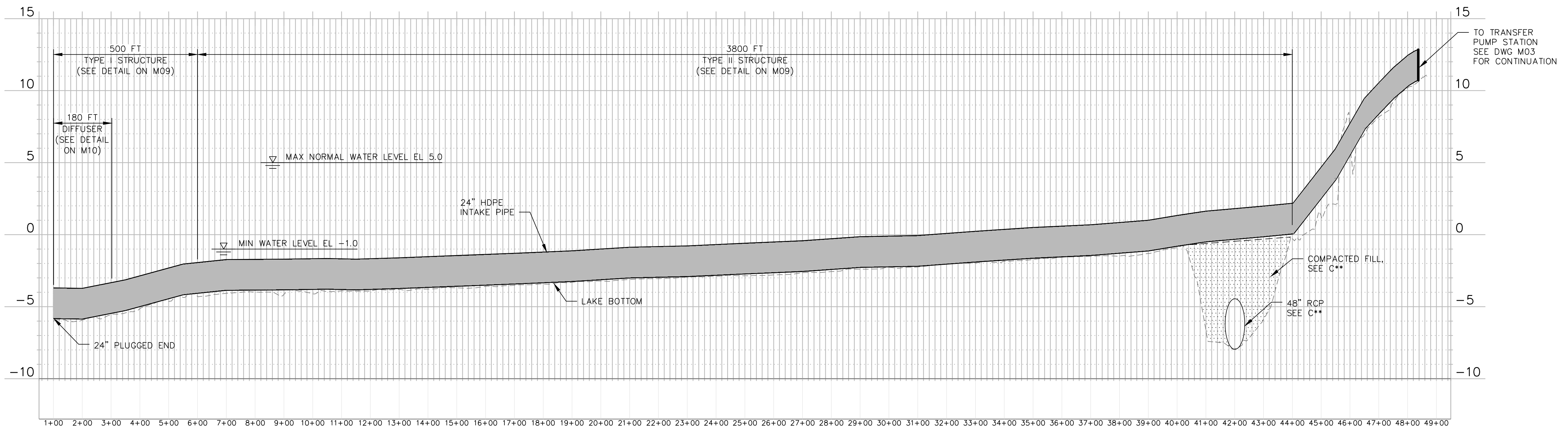
PROJECT NO.: 168000	
SCALE: NOTED	REVISION: A
DRAWING NO. M01	SHEET NO.: 13 OF XX

REISS ENGINEERING, INC.
 1016 SPRING VILLAS PT.
 WINTER SPRINGS, FL 32708
 (407) 679-5358
 CERTIFICATE OF AUTH. 8181

Parent Sheet Set: 168000_GB Water Prize Plot by: VOLET VANATTA Rev on: 7/5/2019 12:40 PM Individual File Path: R:\Projects\168000 - George Barley Water Prize\Design\Drawings\FinalDesign_2018\W0_CivilSheets-IntakePipe_2018.dwg



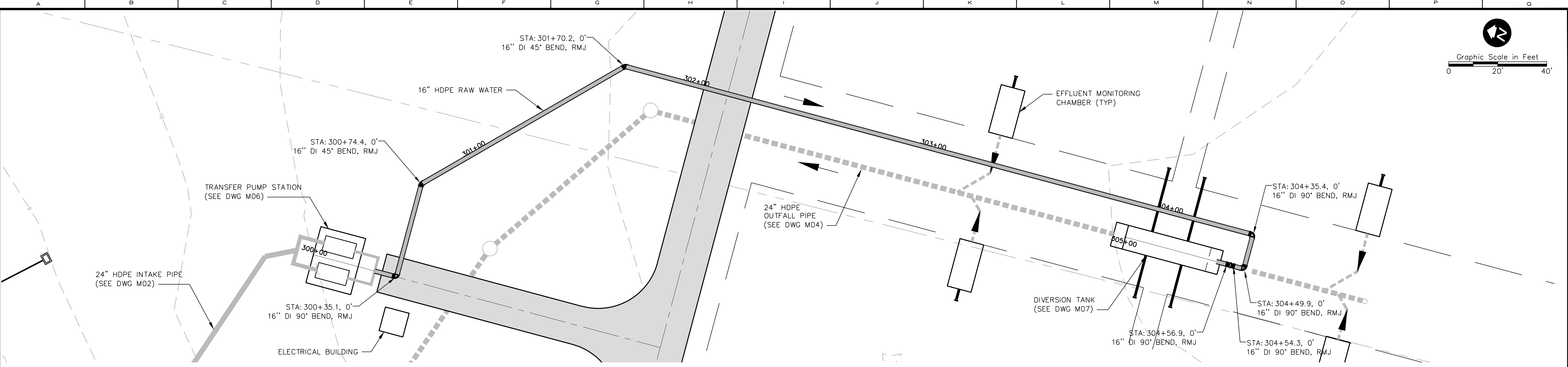
INTAKE PLAN



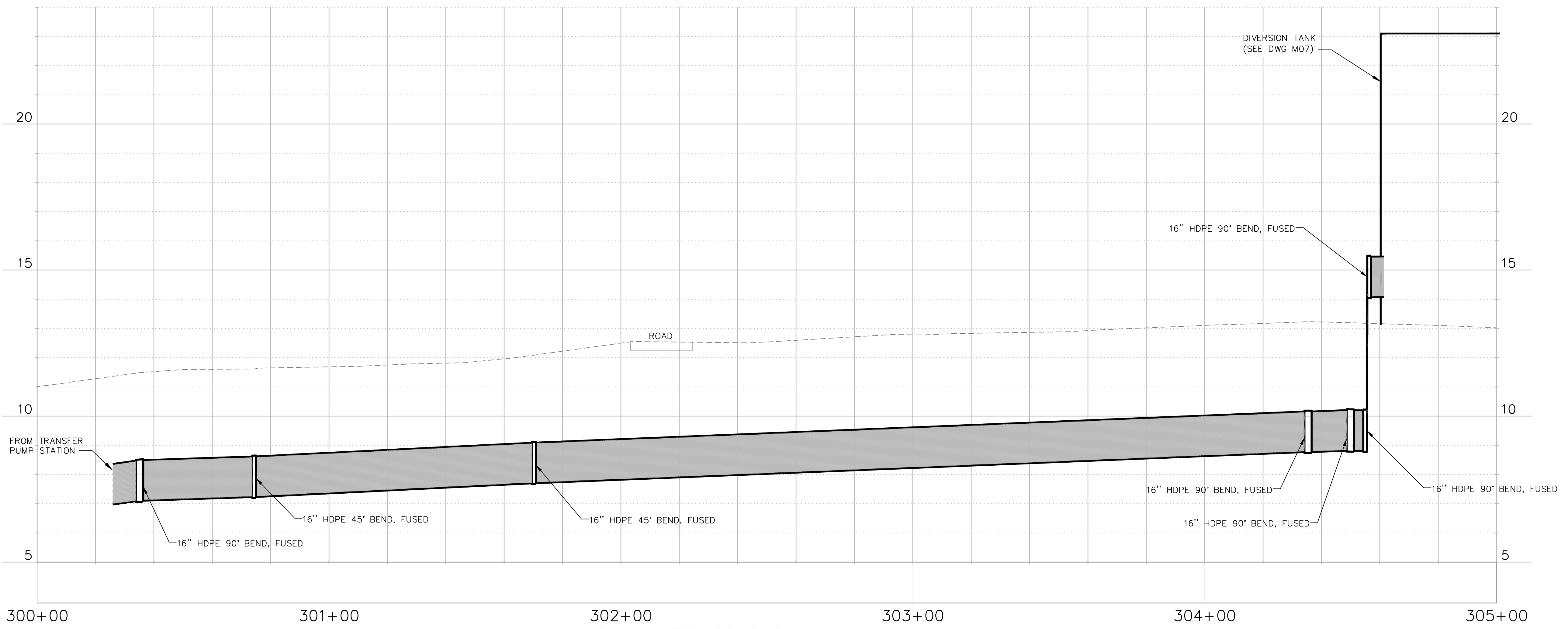
INTAKE PROFILE

				Issue Certification	Designed <u>GWD</u> Drawn <u>VVV,PFH</u> Checked <u>GWD</u> Reviewed <u>---</u> Approved <u>---</u>	THE EVERGLADES FOUNDATION EVERGLADES FOUNDATION GEORGE BARLEY WATER PRIZE MECHANICAL	PROJECT NO.: 168000		
	A	07/2019	60% DRAWINGS	VVV	Glenn W Dunkelberger, P.E. Florida P.E. No. 36310	INTAKE PIPE PLAN AND PROFILE	SCALE: NOTED		REVISION: A
	REV	DATE	DESCRIPTION	BY		DRAWING NO. M02	SHEET NO.: 14 OF XX		REISS ENGINEERING, INC. 1016 SPRING VILLAS PT. WINTER SPRINGS, FL 32708 (407) 679-5358 CERTIFICATE OF AUTH. 8181

Parent Sheet Set: 168000_GB Water Prize Pipe/Plot by: VIOLET VANATTA Rev on: 7/8/2019 9:49 AM Individual File Path: R:\Projects\168000 - George Barley Water Prize\Design\FinalDesign_2018\168000_CivilSheets-FM_Pipe_2018.dwg



RAW WATER PLAN



RAW WATER PROFILE



REV	DATE	DESCRIPTION	BY
A	07/2019	60% DRAWINGS	VVV

Issue Certification	
Designed	GWD
Drawn	VVV, PFH
Checked	GWD
Reviewed	---
Approved	---
Glenn W Dunkelberger, P.E. Florida P.E. No. 38310	

Scale	1" = 1" AT FULL SIZE
-------	----------------------

THE EVERGLADES FOUNDATION
EVERGLADES FOUNDATION GEORGE BARLEY WATER PRIZE

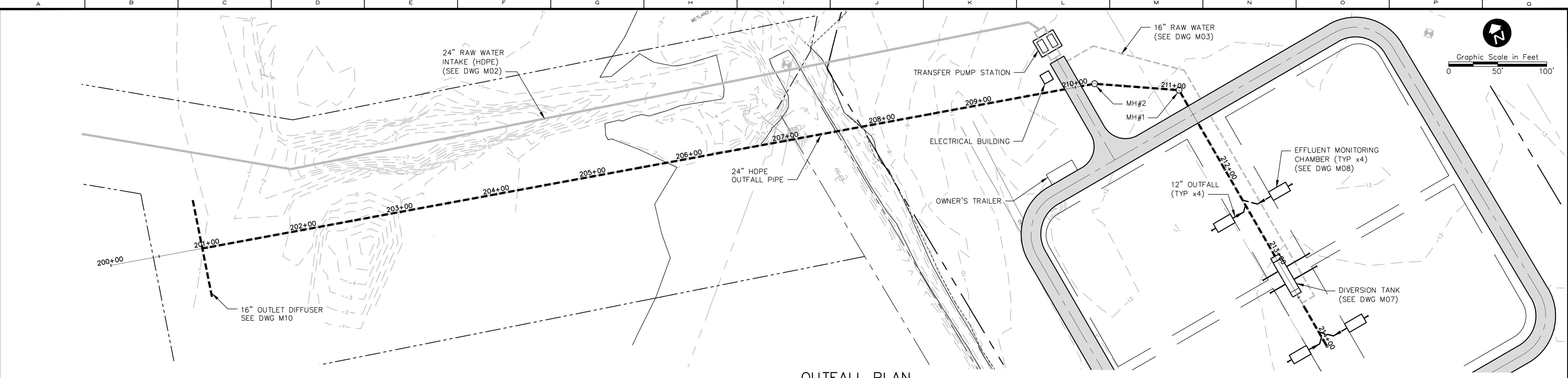
MECHANICAL

RAW WATER PIPE PLAN AND PROFILE

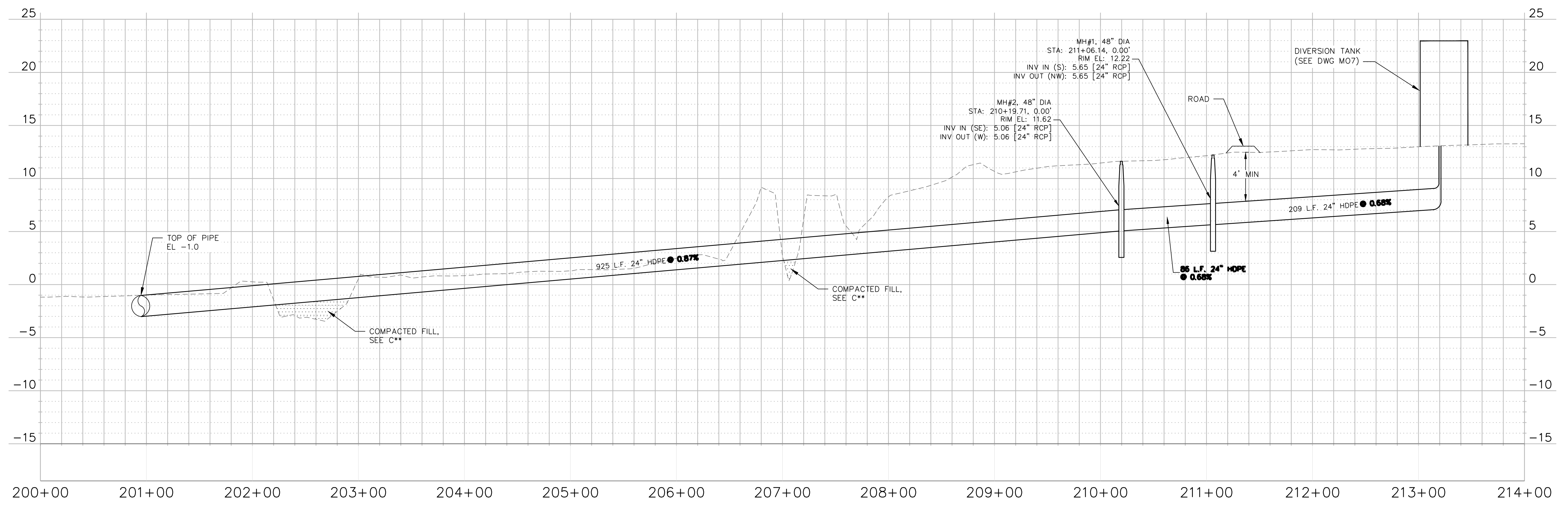
PROJECT NO.: 168000	
SCALE: NOTED	REVISION: A
DRAWING NO. M03	SHEET NO.: 15 OF XX

REISS ENGINEERING, INC.
1016 SPRING VILLAS PT.
WINTER SPRINGS, FL 32708
(407) 679-5358
CERTIFICATE OF AUTH. 8181



Parent Sheet Set: 168000_GB Water Prize/Plot by: MOLET VANATTA Rev on: 7/8/2019 9:55 AM
 Individual File Path: R:\Projects\168000 - George Barley Water Prize\Design\FinalDesign_2018\168000_CivilSheets-OutfallPipe_2018.dwg



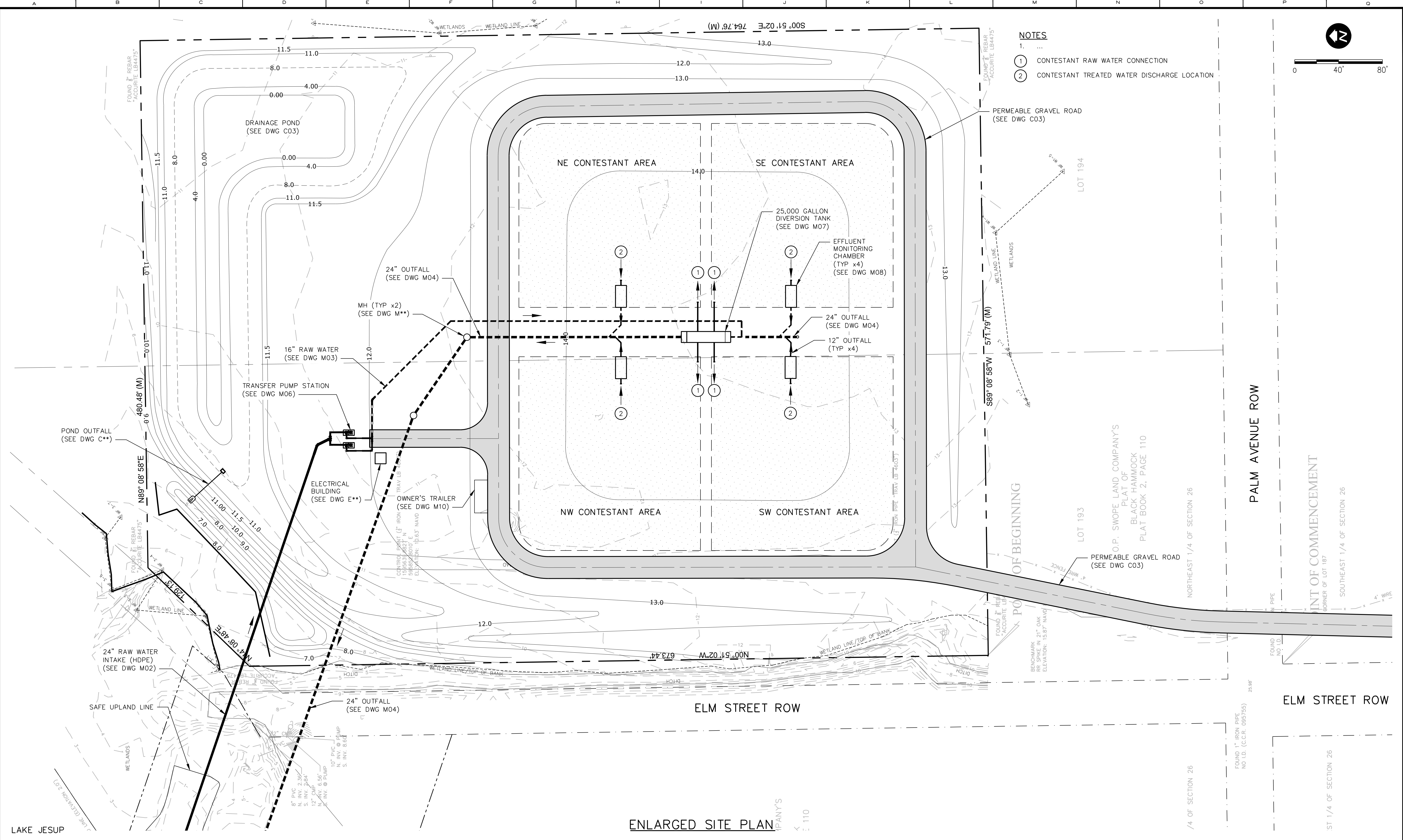
OUTFALL PLAN



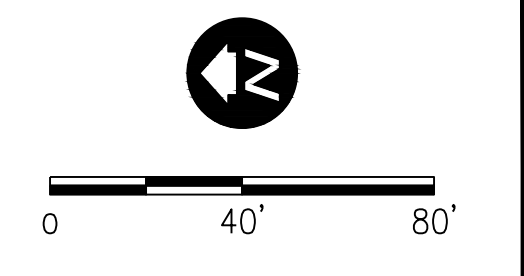
OUTFALL PROFILE

				Issue Certification Glenn W Dunkelberger, P.E. Florida P.E. No. 38310		THE EVERGLADES FOUNDATION EVERGLADES FOUNDATION GEORGE BARLEY WATER PRIZE MECHANICAL OUTFALL PIPE PLAN AND PROFILE				PROJECT NO.: 168000		 REISS ENGINEERING, INC. 1016 SPRING VILLAS PT. WINTER SPRINGS, FL 32708 (407) 679-5358 CERTIFICATE OF AUTH. 8181	
Designed	GWD	Drawn	VVV,PFH	Checked	GWD	Reviewed	---	Approved	---	SCALE:	NOTED	REVISION:	A
REV	DATE	DESCRIPTION	BY			DRAWING NO.	M04		SHEET NO.:	16 OF XX			

Parent Sheet Set: 168000_GB Water Prize/Plot by: WOLET VANATTA Rev on: 7/8/2019 10:08 AM Individual File Path: R:\Projects\168000 - George Barley Water Prize\Design\Drawings\FinalDesign_2018\W05.dwg



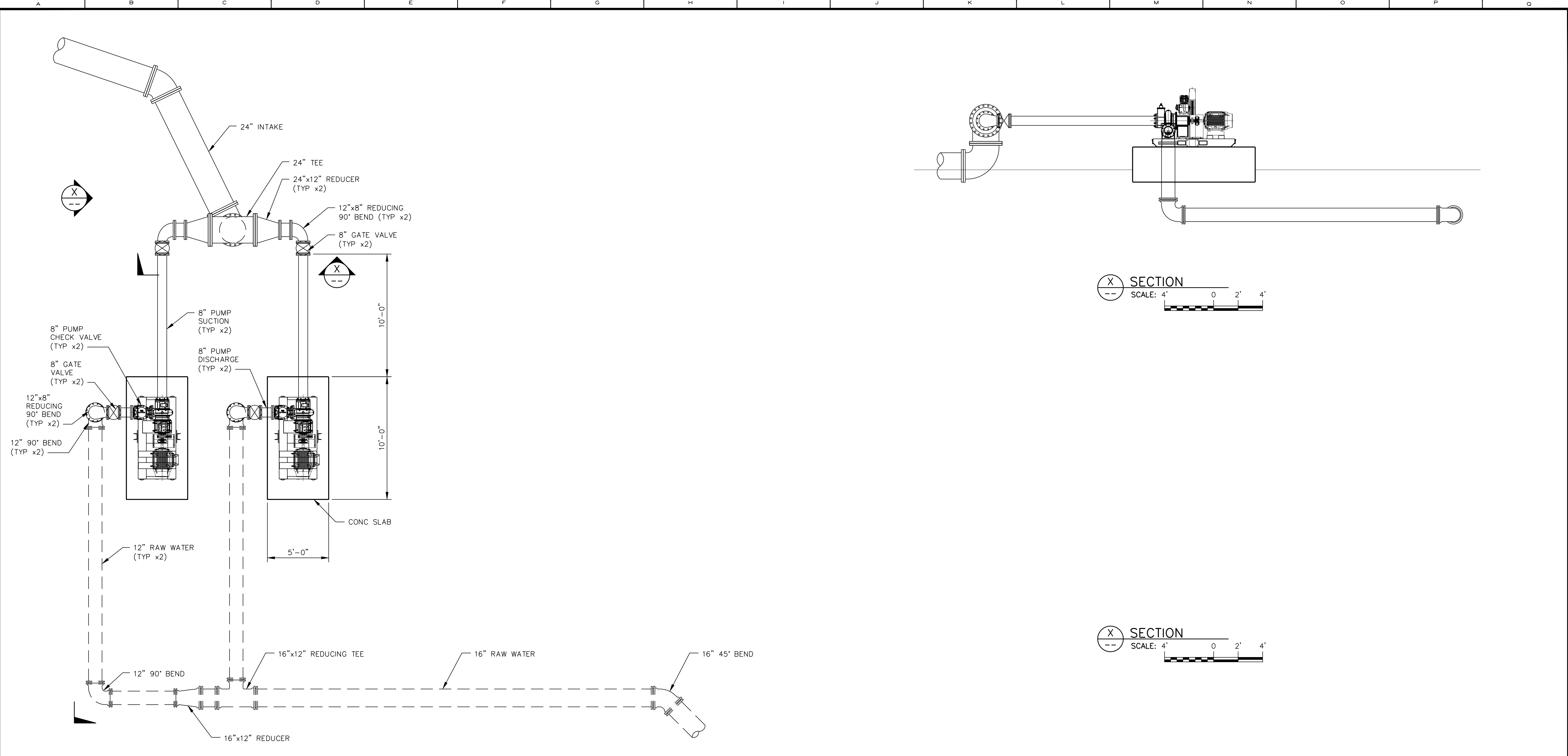
- NOTES**
1. ...
 1. CONTESTANT RAW WATER CONNECTION
 2. CONTESTANT TREATED WATER DISCHARGE LOCATION



ENLARGED SITE PLAN

				Issue Certification Glenn W Dunkelberger, P.E. Florida P.E. No. 36310		Designed <u>GWD</u> Drawn <u>VVV</u> Checked <u>GWD</u> Reviewed <u>---</u> Approved <u>---</u>		PROJECT NO.: 168000		REISS ENGINEERING, INC. 1016 SPRING VILLAS PT. WINTER SPRINGS, FL 32708 (407) 679-5358 CERTIFICATE OF AUTH. 8181
				THE EVERGLADES FOUNDATION EVERGLADES FOUNDATION GEORGE BARLEY WATER PRIZE MECHANICAL ENLARGED SITE PLAN		SCALE: NOTED		REVISION: A		
REV A 07/2019 60% DRAWINGS VVV DATE DESCRIPTION BY				DRAWING NO. M05		SHEET NO.: 17 OF XX				

Parent Sheet Set: 168000_GB Water Prize; Plot by: WOLET, VANATTA Rev on: 7/8/2019 1:02 PM Individual File Path: R:\Projects\168000 - George Barley Water Prize\Design\Drawings\FinalDesign_2018\M06.dwg



NOTES

1. ...



REV	DATE	DESCRIPTION	BY
A	07/2019	60% DRAWINGS	VVV

Issue Certification	
DESIGNED	CHECKED
Glenn W Dunkelberger, P.E. Florida P.E. No. 38310	VVV

Designed	GWD
Drawn	VVV
Checked	GWD
Reviewed	---
Approved	---

THE EVERGLADES FOUNDATION
EVERGLADES FOUNDATION GEORGE BARLEY WATER PRIZE

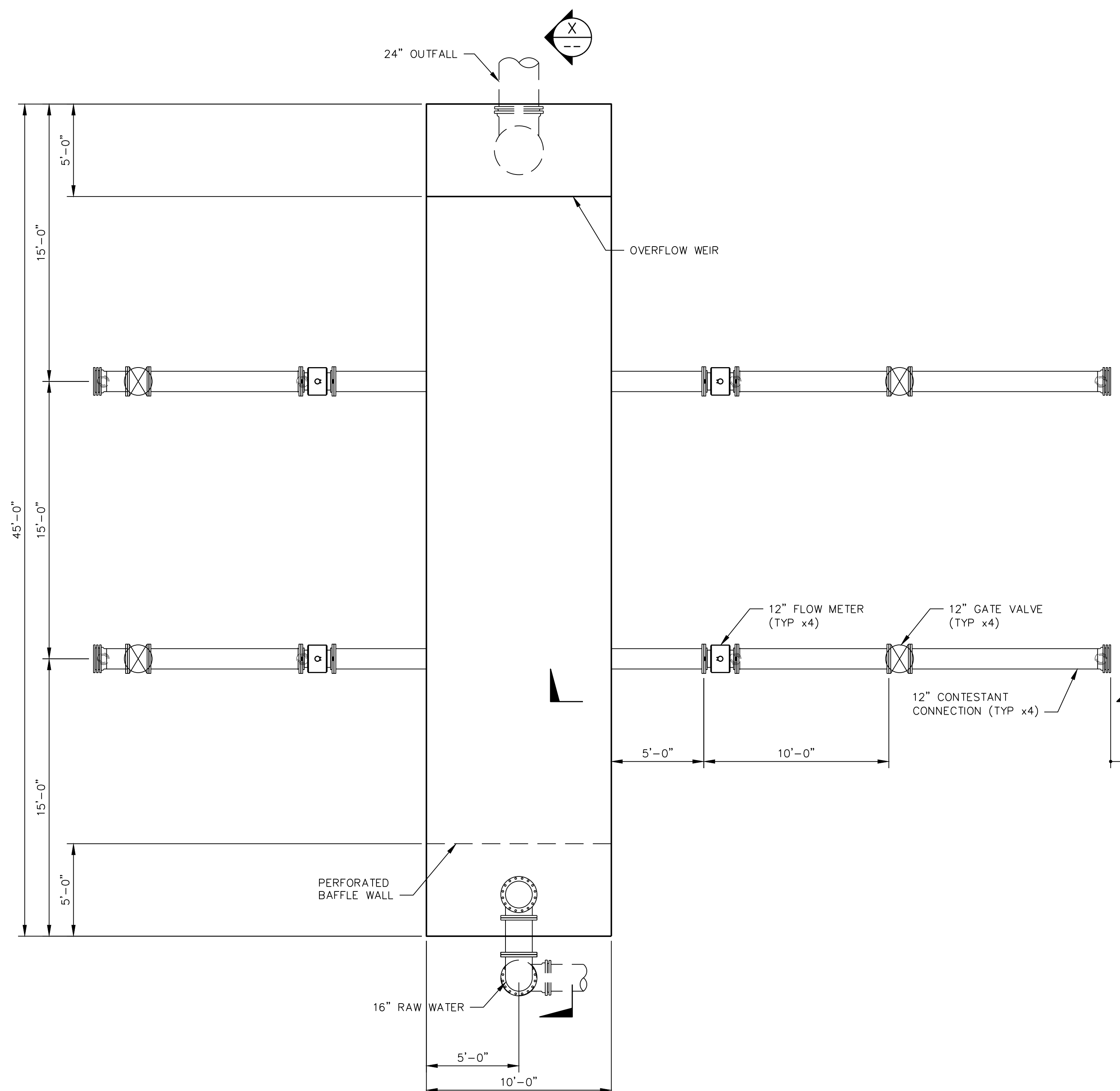
MECHANICAL

VFD TRANSFER PUMP STATION PLAN AND SECTIONS

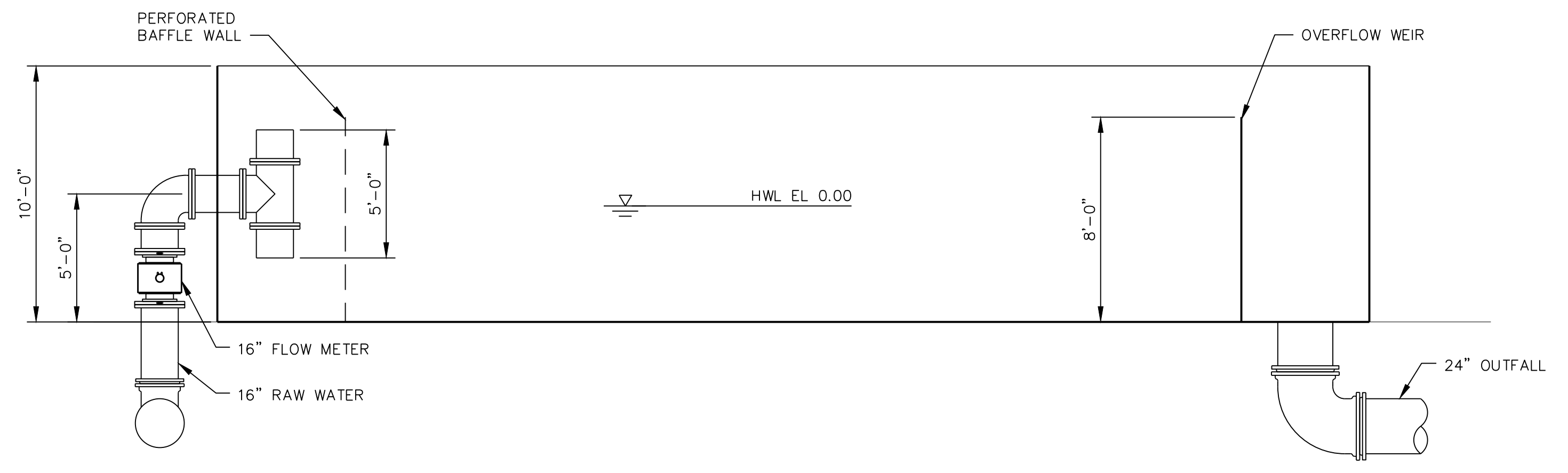
PROJECT NO.: 168000	
SCALE: NOTED	REVISION: A
DRAWING NO. M06	SHEET NO.: 18 OF XX

REISS ENGINEERING, INC.
1016 SPRING VILLAS PT.
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CERTIFICATE OF AUTH. 8181

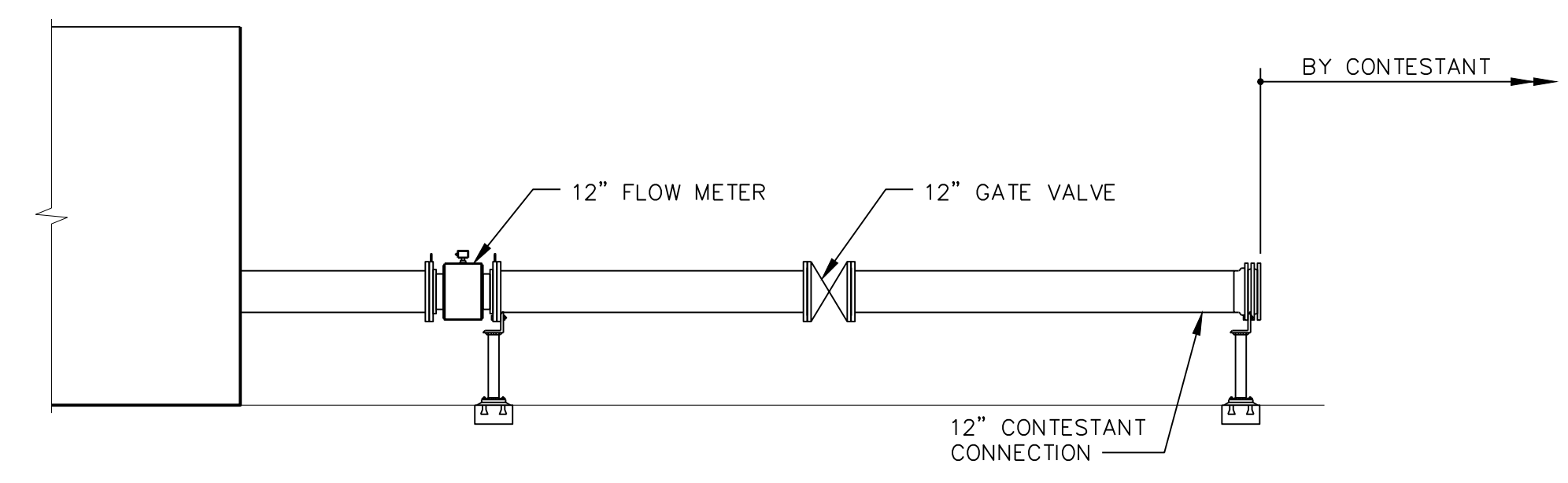
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DIVERSION TANK PLAN
SCALE: 4' = 1'



X SECTION
SCALE: 4' = 1'



X SECTION
SCALE: 4' = 1'

NOTES

1. ...



REV	DATE	DESCRIPTION	BY
A	07/2019	60% DRAWINGS	VVV

Issue Certification	
Designed	GWD
Drawn	VVV
Checked	GWD
Reviewed	---
Approved	---
Glenn W Dunkelberger, P.E. Florida P.E. No. 36310	

Designed	GWD
Drawn	VVV
Checked	GWD
Reviewed	---
Approved	---
LINE IS 1" AT FULL SIZE	

THE EVERGLADES FOUNDATION
EVERGLADES FOUNDATION GEORGE BARLEY WATER PRIZE

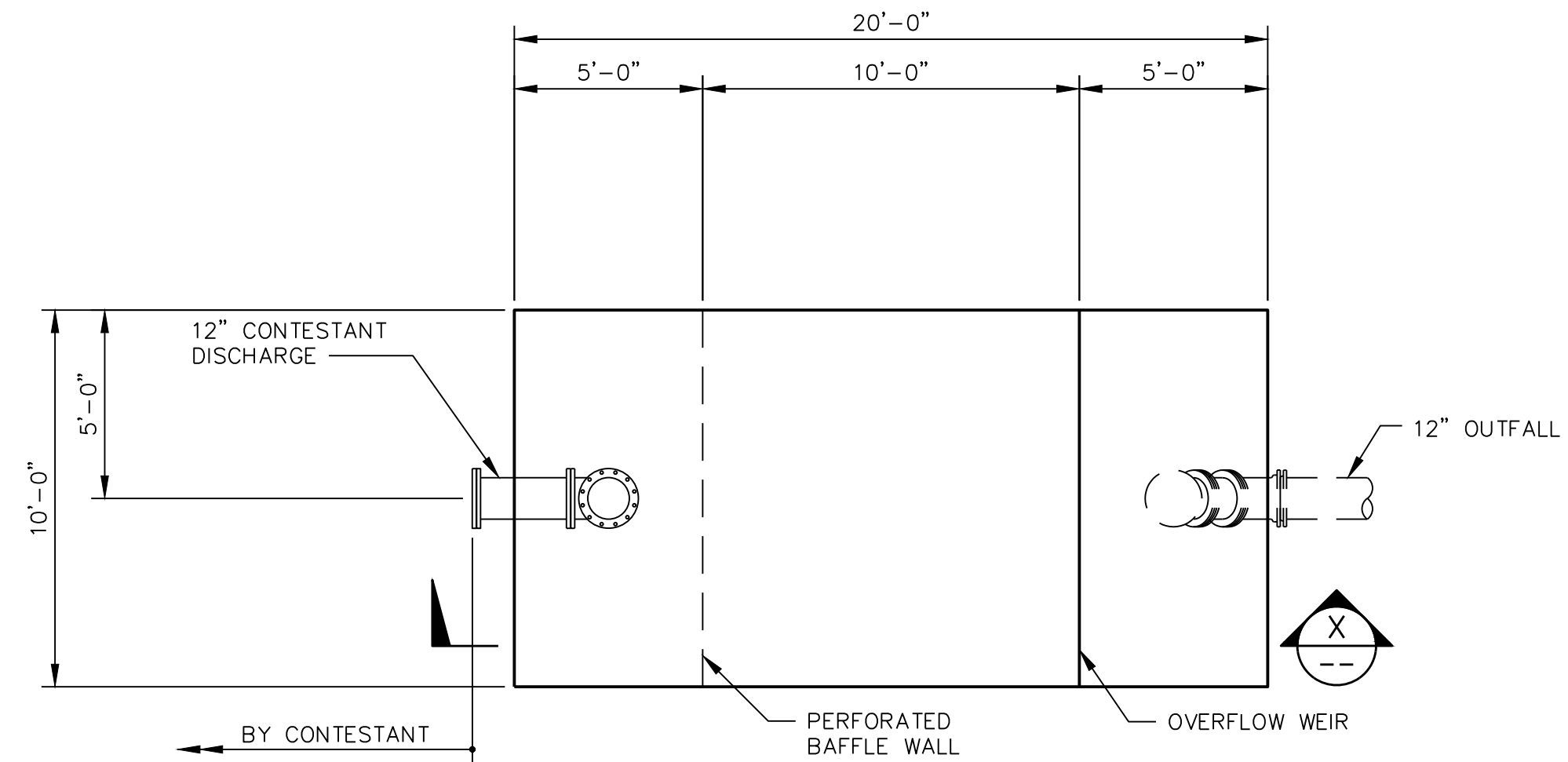
MECHANICAL

DIVERSION TANK PLAN AND SECTIONS

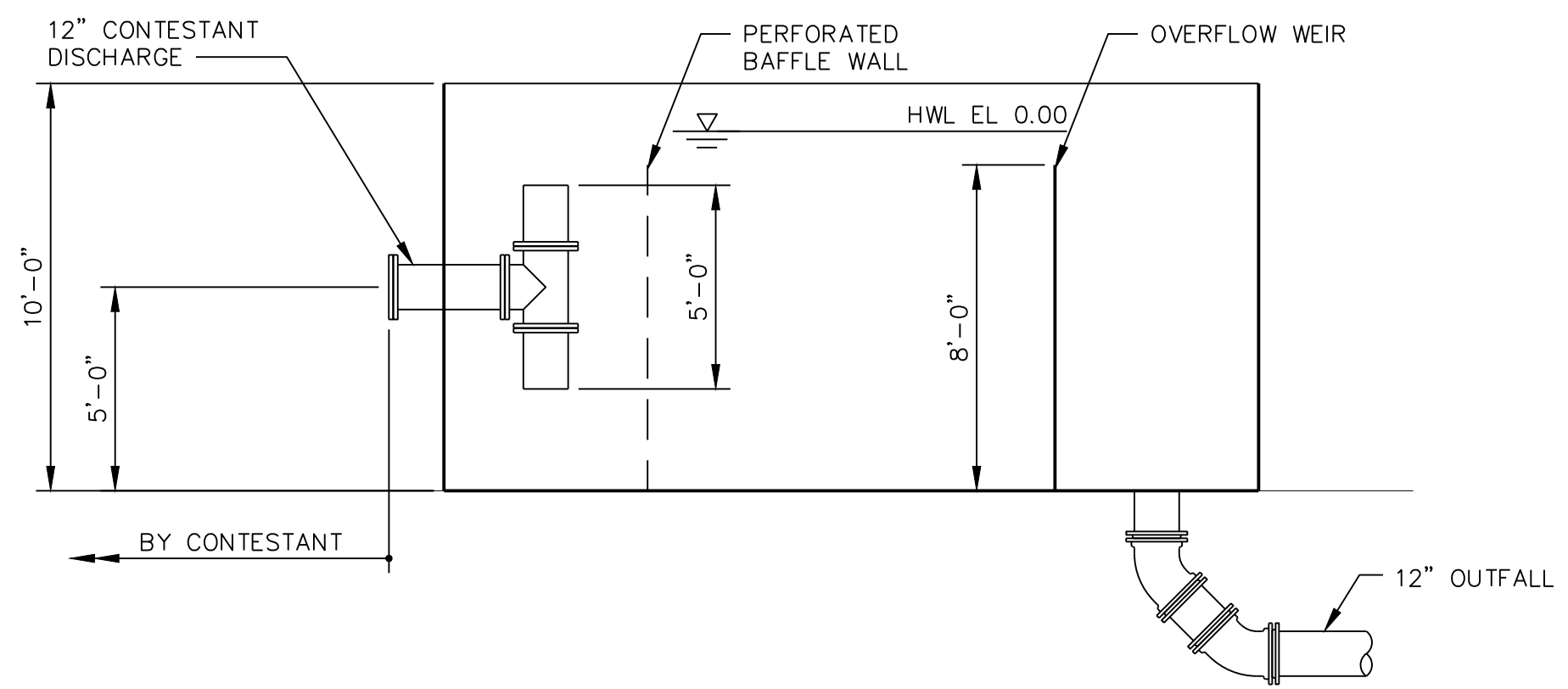
PROJECT NO.: 168000	
SCALE: NOTED	REVISION: A
DRAWING NO. M07	SHEET NO.: 19 OF XX

REISS ENGINEERING, INC.
1016 SPRING VILLAS PT.
WINTER SPRINGS, FL 32708
(407) 679-5358
CERTIFICATE OF AUTH. 8181

Parent Sheet Set: 168000_GB Water Prize; Plot by: VIOLET VANATTA Rev on: 7/8/2019 9:26 AM Individual File Path: R:\Projects\168000 - George Barley Water Prize\Design\Drawings\FinalDesign_2018\W08.dwg



EFFLUENT MONITORING CHAMBER PLAN



SECTION X-X
SCALE: 4'

NOTES

1. ...



REV	DATE	DESCRIPTION	BY
A	07/2019	60% DRAWINGS	VVV

Issue Certification	
Designed	GWD
Drawn	VVV
Checked	GWD
Reviewed	---
Approved	---
Glenn W Dunkelberger, P.E. Florida P.E. No. 36310	

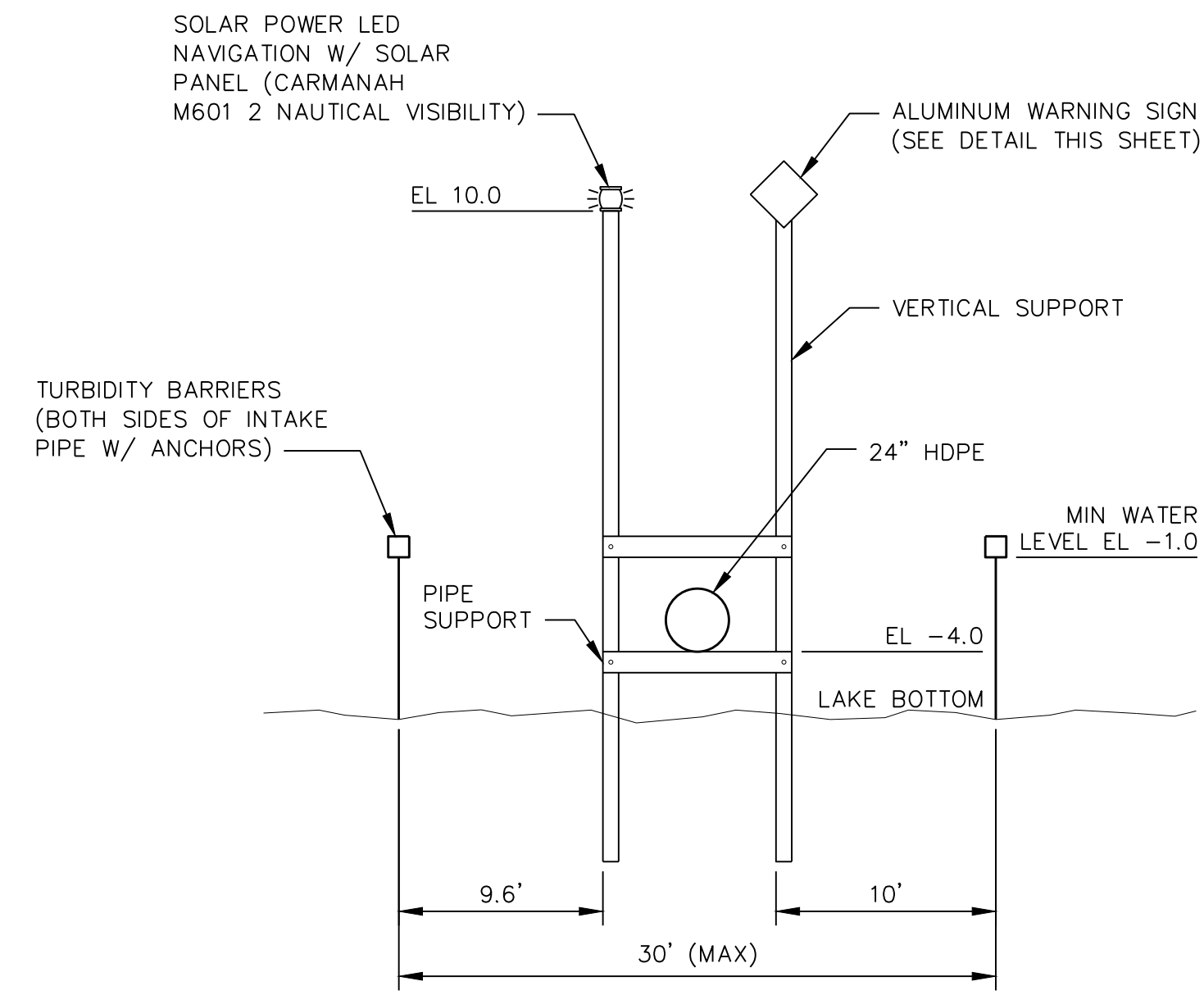
Designed	GWD
Drawn	VVV
Checked	GWD
Reviewed	---
Approved	---
LINE IS 1" AT FULL SIZE	

THE EVERGLADES FOUNDATION
 EVERGLADES FOUNDATION GEORGE BARLEY WATER PRIZE
 MECHANICAL
EFFLUENT MONITORING CHAMBER PLAN AND SECTIONS

PROJECT NO.: 168000	
SCALE: NOTED	REVISION: A
DRAWING NO. M08	SHEET NO.: 20 OF XX

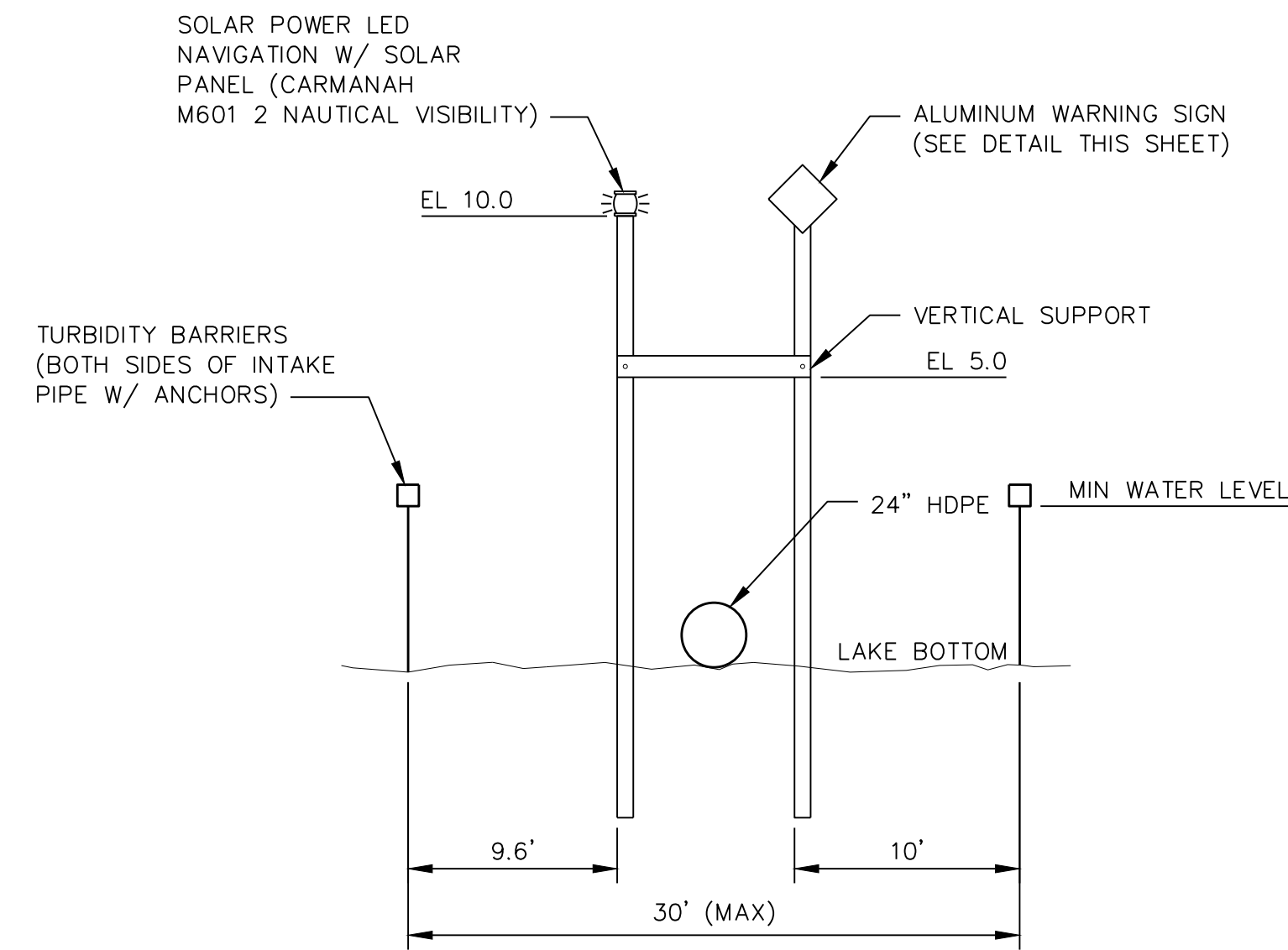


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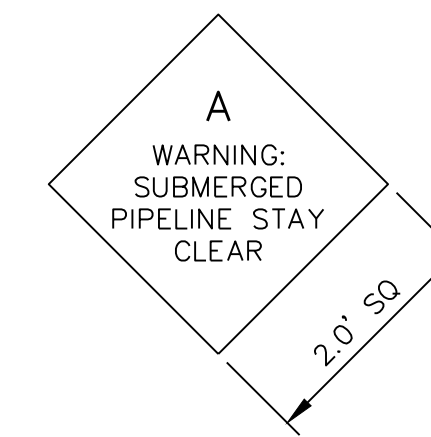
NOTE: SEE STRUCTURAL DRAWINGS FOR CONSTRUCTION DETAILS.

TYPE I STRUCTURE DETAIL
-- SCALE: N.T.S.



NOTE: SEE STRUCTURAL DRAWINGS FOR CONSTRUCTION DETAILS.

TYPE II STRUCTURE DETAIL
-- SCALE: N.T.S.



ALUMINUM WARNING SIGN DETAIL
-- SCALE: N.T.S.



REV	DATE	DESCRIPTION	BY
A	07/2019	60% DRAWINGS	VVV

Issue Certification	
Designed	GWD
Drawn	VVV
Checked	GWD
Reviewed	---
Approved	---
Glenn W Dunkelberger, P.E. Florida P.E. No. 38310	

Designed	GWD
Drawn	VVV
Checked	GWD
Reviewed	---
Approved	---
LINE IS 1" AT FULL SIZE	

THE EVERGLADES FOUNDATION
EVERGLADES FOUNDATION GEORGE BARLEY WATER PRIZE

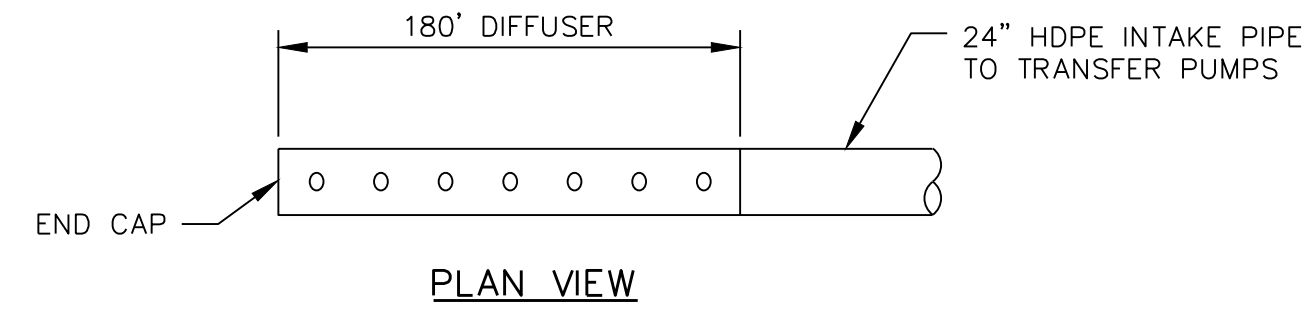
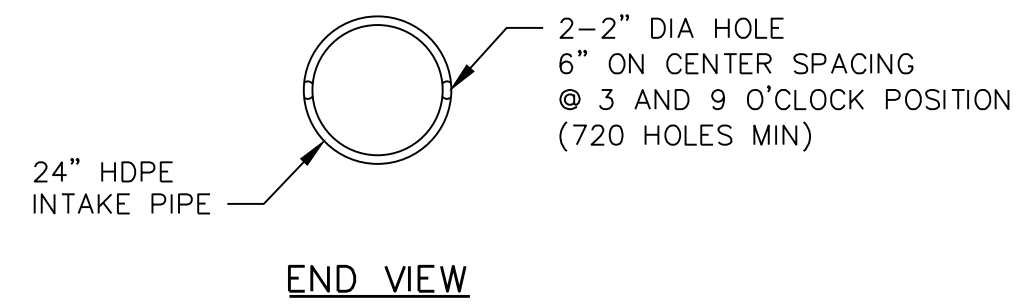
MECHANICAL

PIPE STRUCTURE DETAILS

PROJECT NO.: 168000	
SCALE: NOTED	REVISION: A
DRAWING NO. M09	SHEET NO.: 21 OF XX

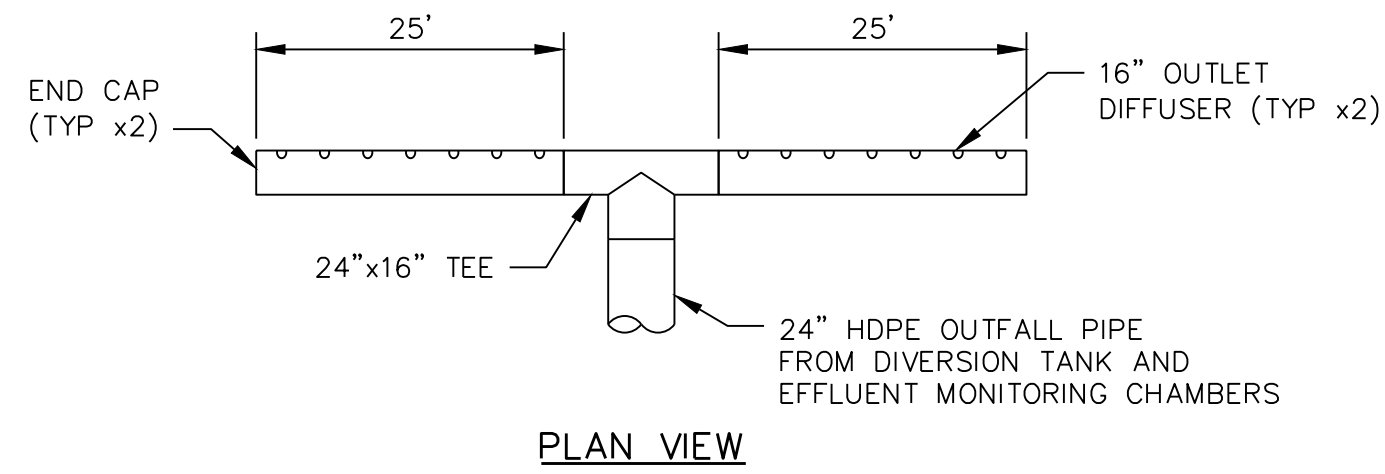
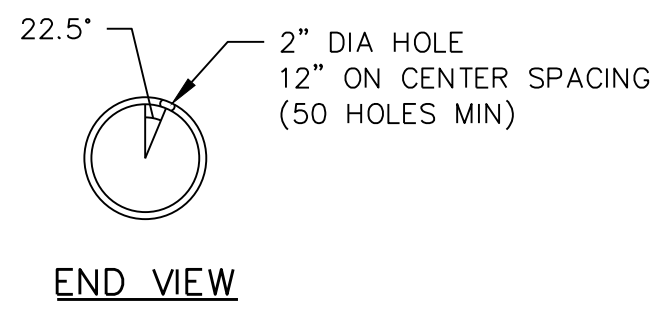
REISS ENGINEERING, INC.
1016 SPRING VILLAS PT.
WINTER SPRINGS, FL 32708
(407) 679-5358
CERTIFICATE OF AUTH. 8181

Parent Sheet Set: 168000_GB Water Prize Plot by VOLET VANATTA Rev on: 7/8/2019 1:15 PM Individual File Path: R:\Projects\168000 - George Barley Water Prize\Design\FinalDesign_2018\M10.dwg



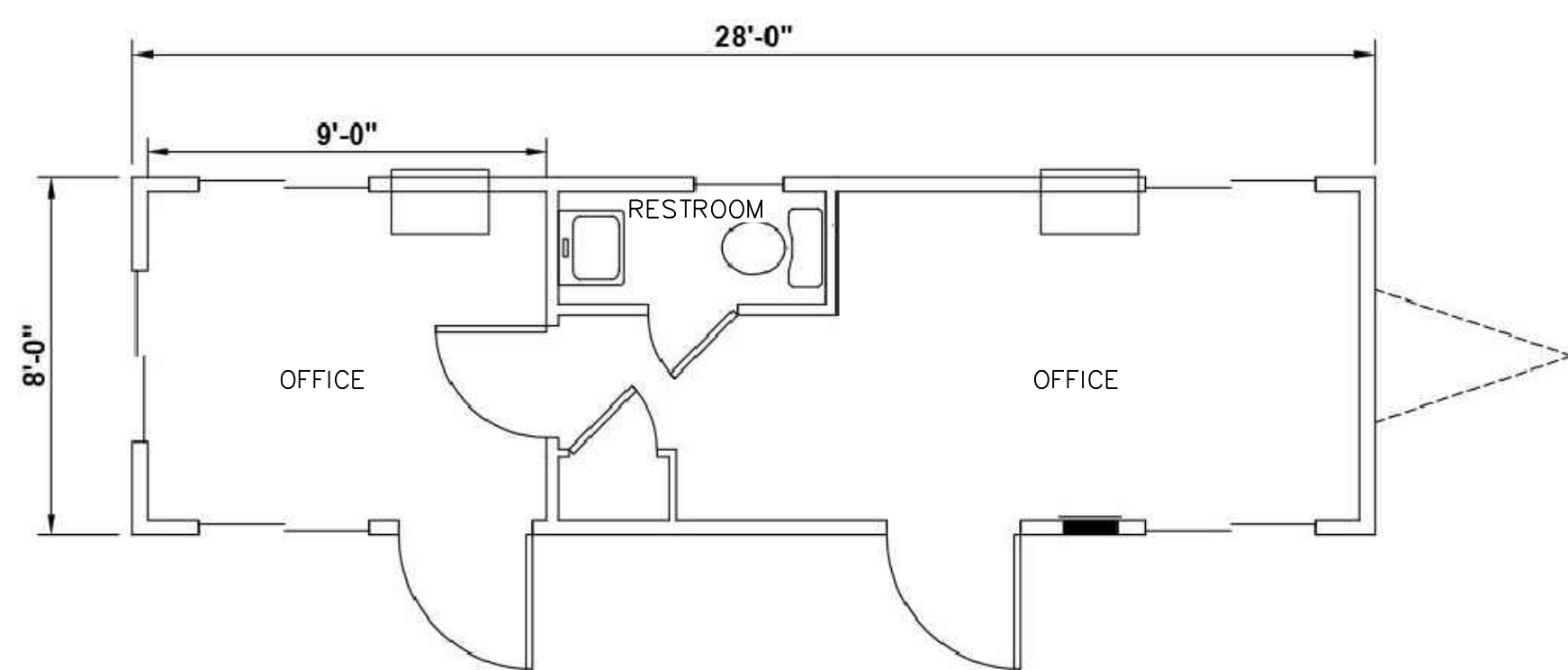
NOTE:
SUPPORTS NOT SHOWN. SEE STRUCTURAL DRAWINGS FOR CONSTRUCTION DETAILS.

INTAKE DIFFUSER DETAIL
SCALE: N.T.S.

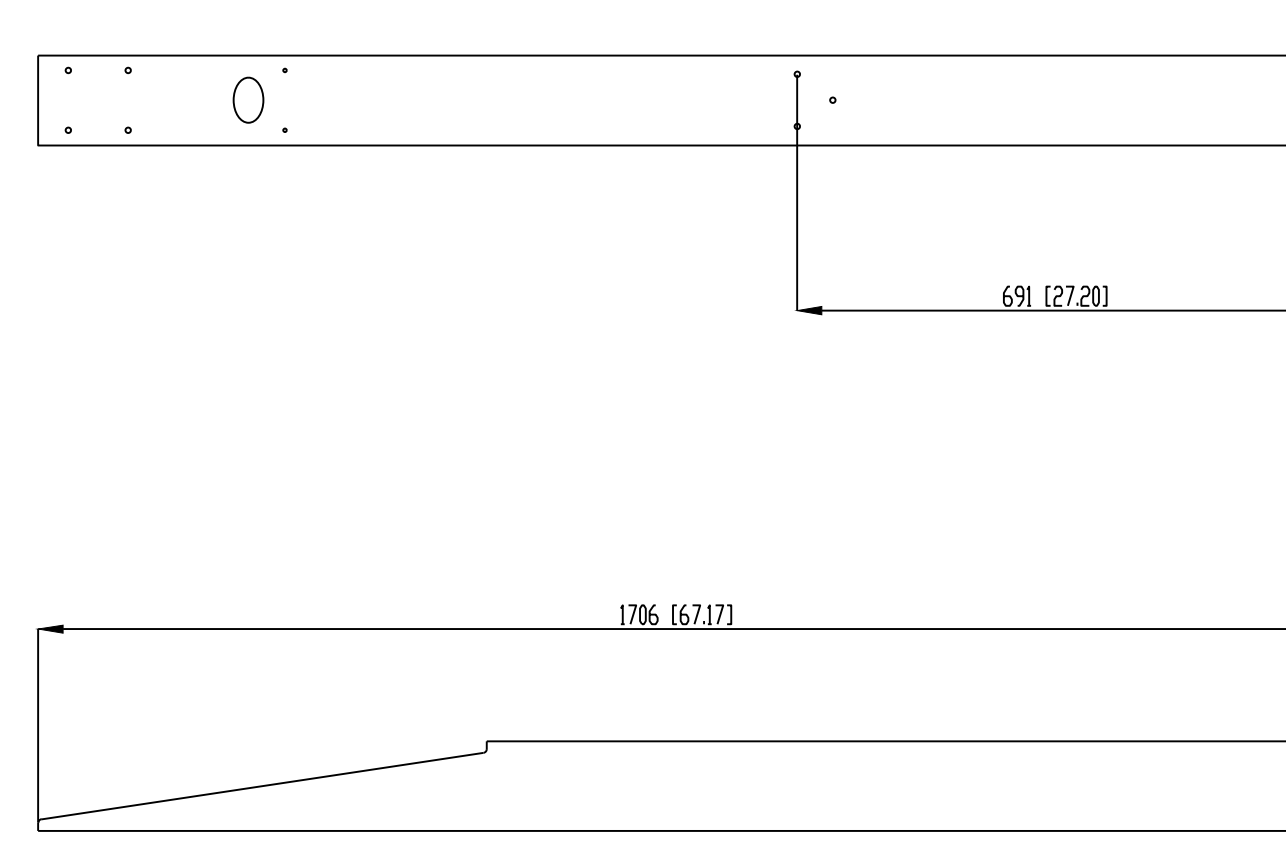


NOTE:
RIP RAP NOT SHOWN. SEE _____ DRAWINGS FOR DETAILS.

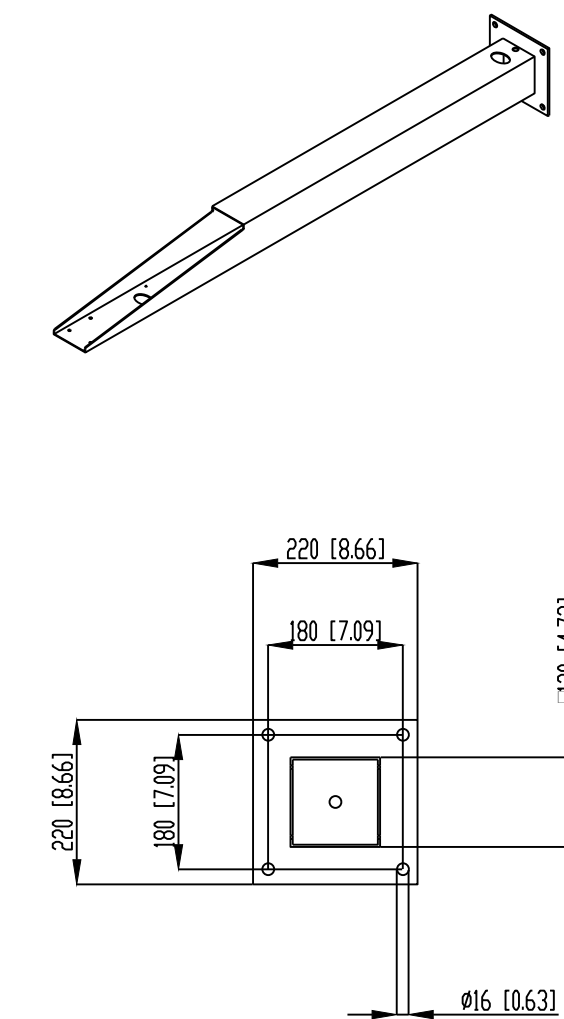
OUTLET DIFFUSER DETAIL
SCALE: N.T.S.



OWNER'S TRAILER DETAIL
SCALE: N.T.S.



ANALYZER DETAIL
SCALE: N.T.S.



REV	DATE	DESCRIPTION	BY
A	07/2019	60% DRAWINGS	VVV

Issue Certification	
Designed	GWD
Drawn	VVV
Checked	GWD
Reviewed	---
Approved	---
Glenn W Dunkelberger, P.E. Florida P.E. No. 38310	

THE EVERGLADES FOUNDATION EVERGLADES FOUNDATION GEORGE BARLEY WATER PRIZE
MECHANICAL
DETAILS
LINE IS 1" AT FULL SIZE

PROJECT NO.: 168000	
SCALE: NOTED	REVISION: A
DRAWING NO. M10	SHEET NO.: 22 OF XX

PROJECT NO.: 168000	
SCALE: NOTED	REVISION: A
DRAWING NO. M10	SHEET NO.: 22 OF XX

